

Fig2.ALPK1 pathway and GSDMD pyroptosis pathwaywas induced in db/db mice retinas.

p-TIFA

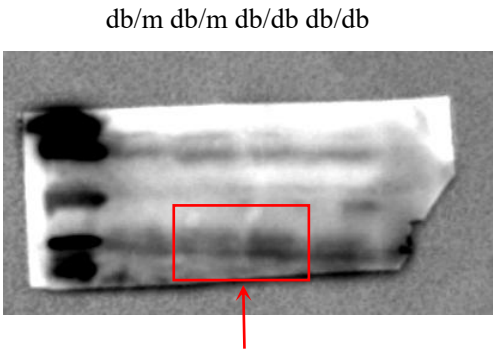
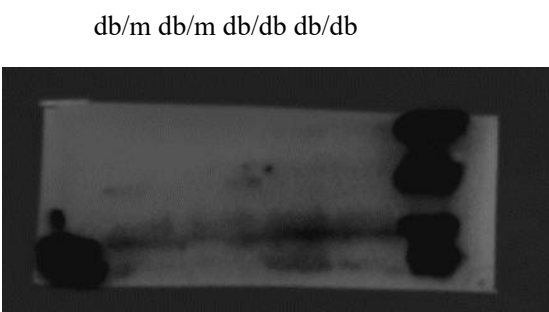


Fig2C: p-TIFA



TIFA

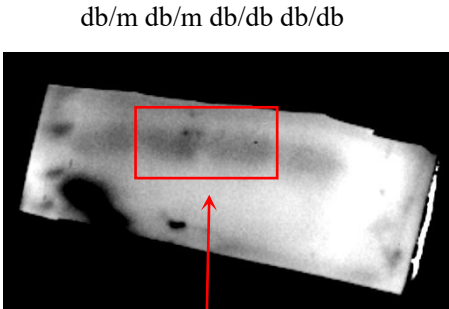
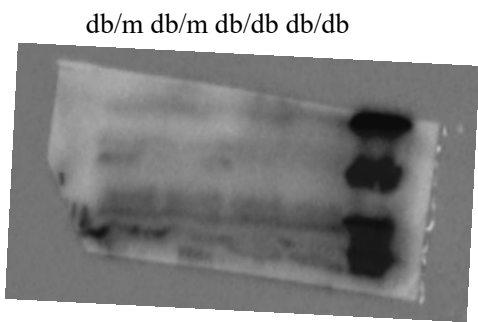


Fig2C: TIFA



TRAF6

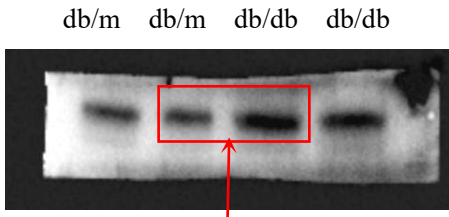
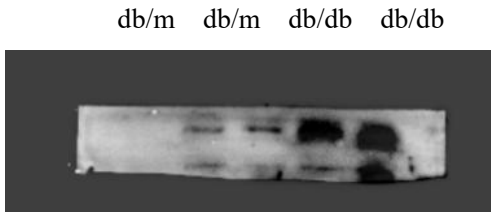


Fig2C: TRAF6



β-actin

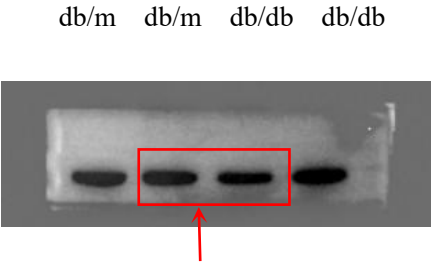


Fig2C: β-actin

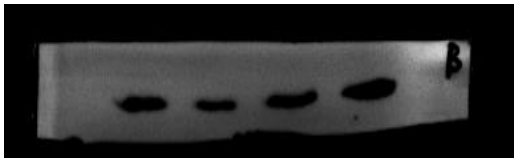


Fig4.DR-BV2 cell model induced by hypoxia was constructed

ALPK1

Control Control Hypoxia Hypoxia

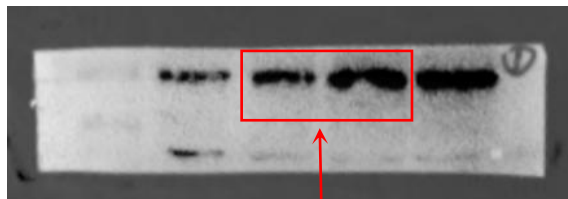
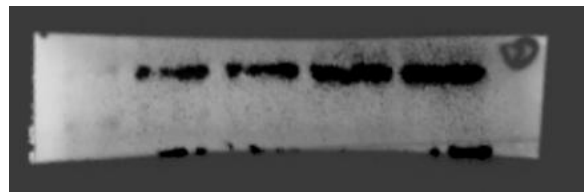


Fig4C: ALPK1

Control Control Hypoxia Hypoxia



β -actin

Control Control Hypoxia Hypoxia

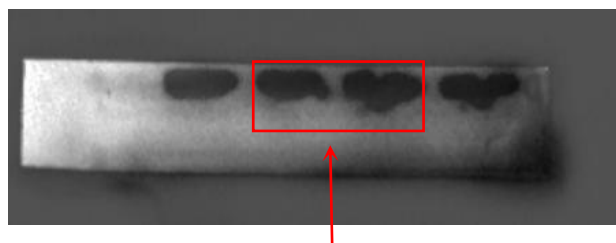


Fig4C: β -actin

Control Control Hypoxia Hypoxia

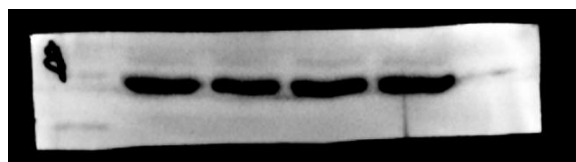


Fig5.ALPK1 knockdown inhibited ALPK1 pathway and GSDMD pyroptosis pathwaywas in DR-BV2 cell model induced by hypoxia.

ALPK1

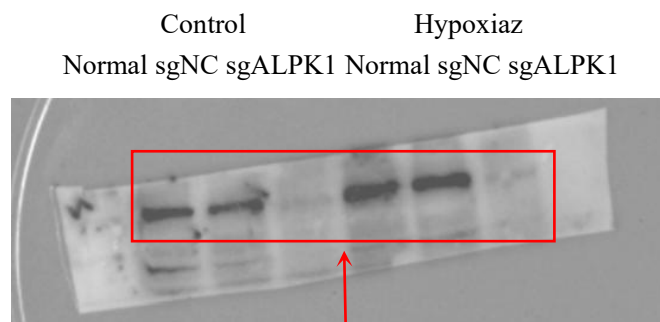
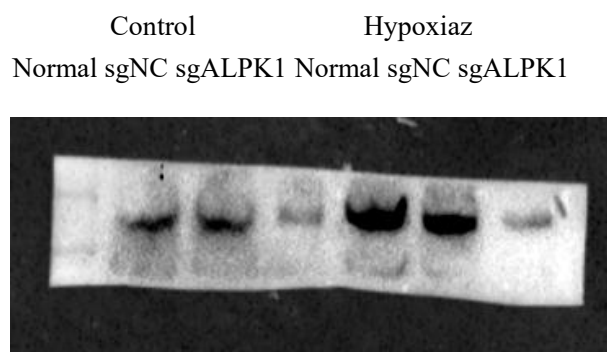
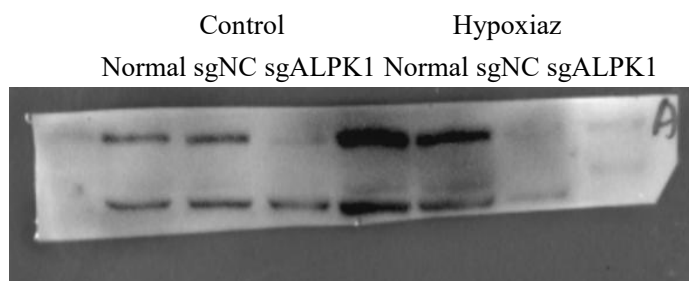


Fig5A: ALPK1



β -actin

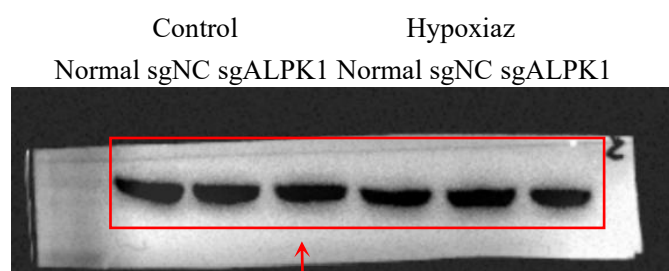
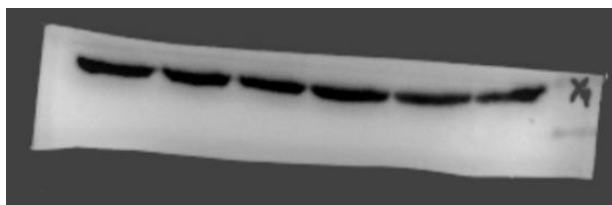
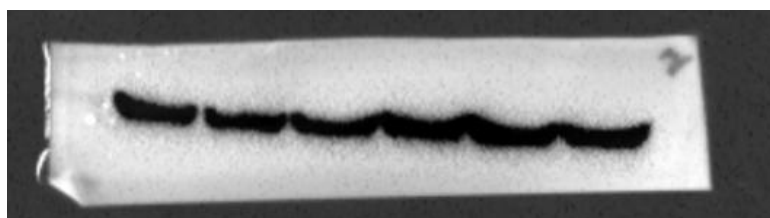


Fig5A: β -actin

Control		Hypoxiaz	
Normal	sgALPK1	Normal	sgALPK1



Control		Hypoxiaz	
Normal	sgALPK1	Normal	sgALPK1



P-TIFA

Control		Hypoxiaz	
Normal	sgALPK1	Normal	sgALPK1

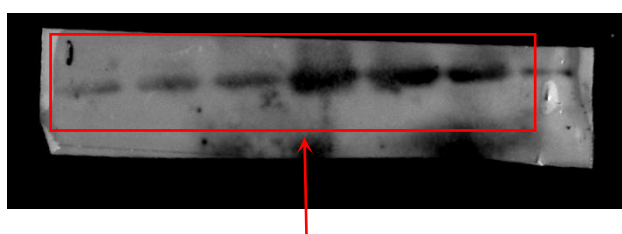
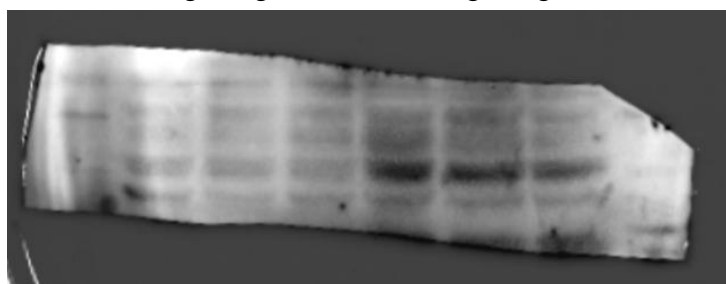
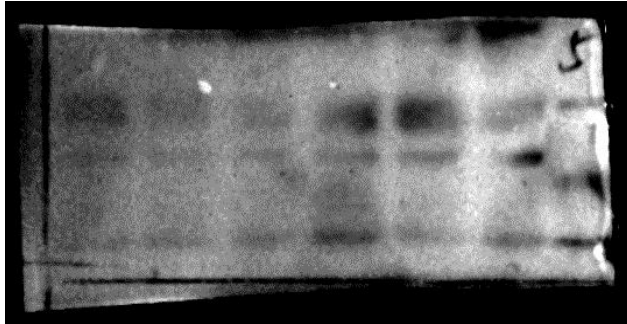


Fig5A: p-TIFA

Control		Hypoxiaz	
Normal	sgALPK1	Normal	sgALPK1



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



TIFA

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1

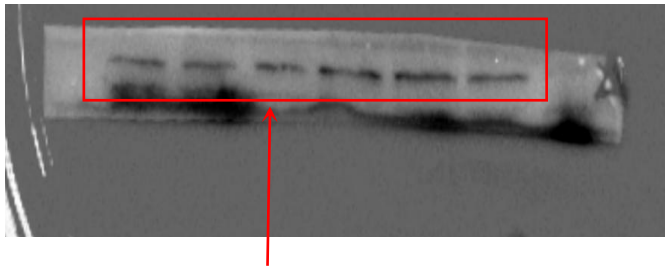
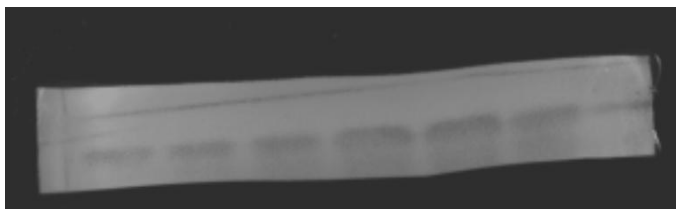
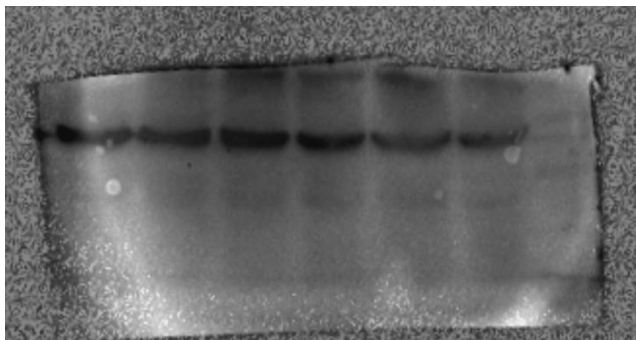


Fig5A: TIFA

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



TRAF6

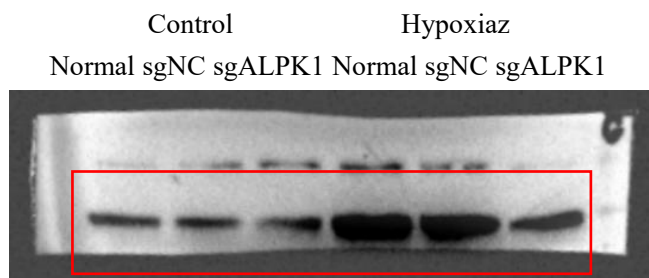
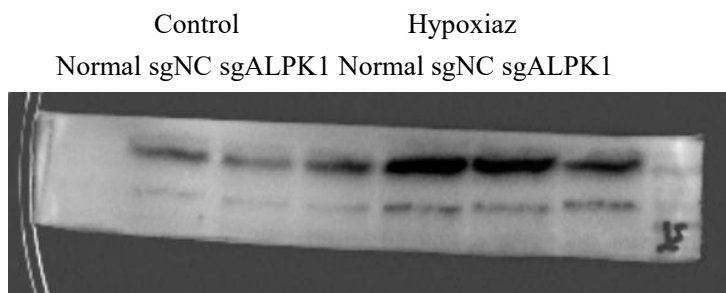
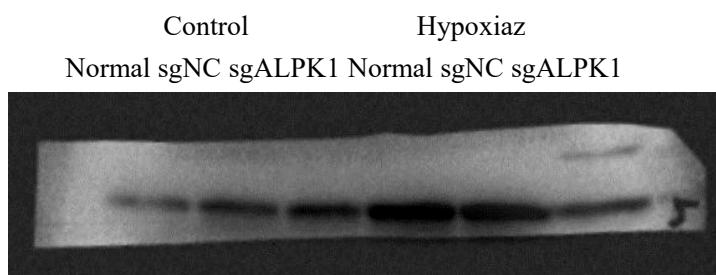
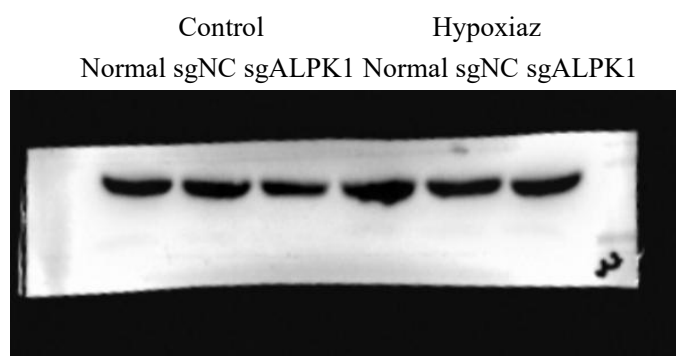


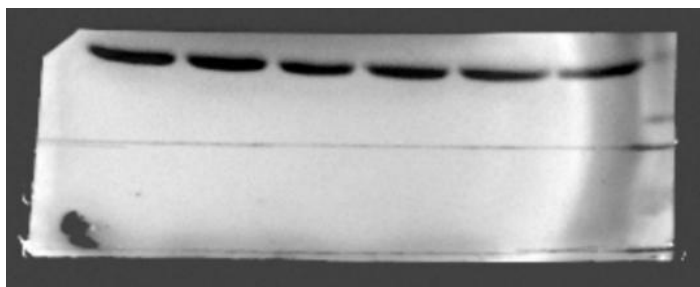
Fig5A: TRAF6



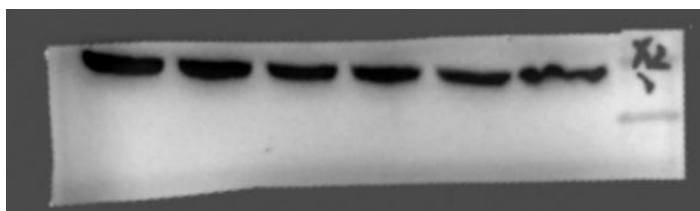
β -actin



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1

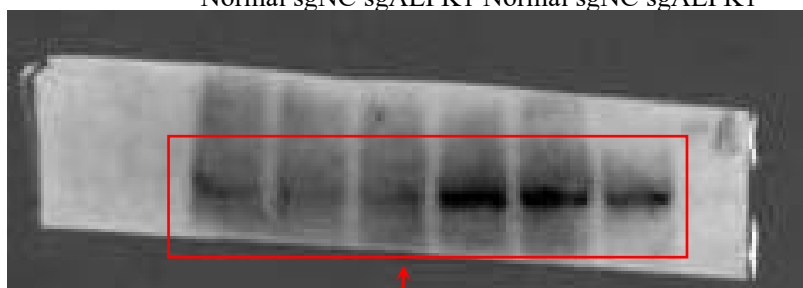
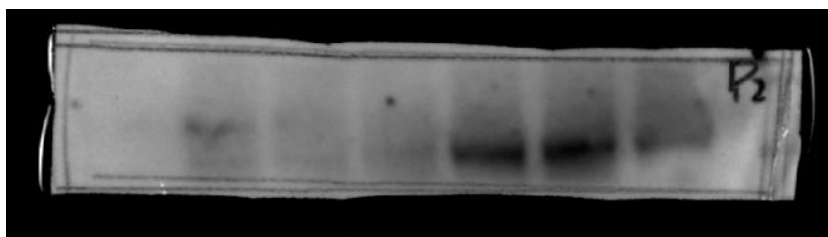
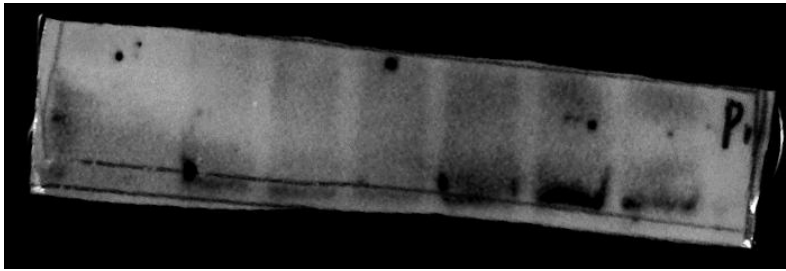


Fig5F: NLRP3

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



B-actin

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1

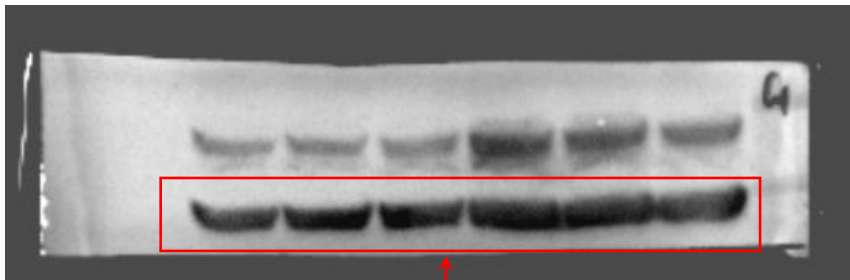
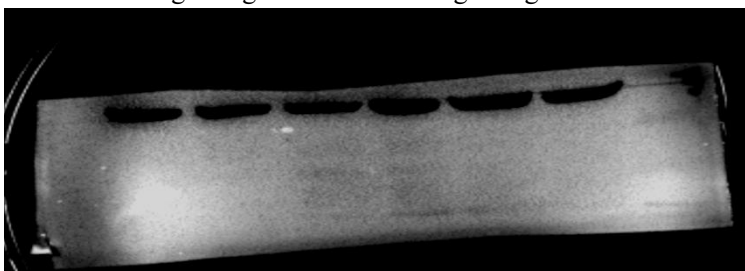
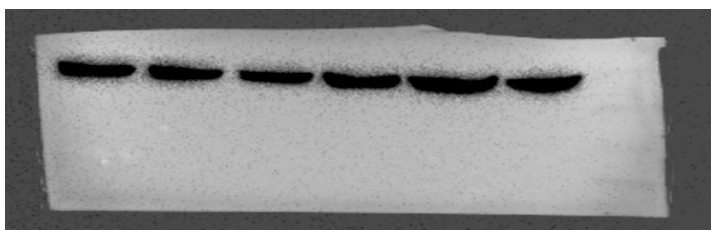


Fig5F: β -actin

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



Pro-Caspase-1

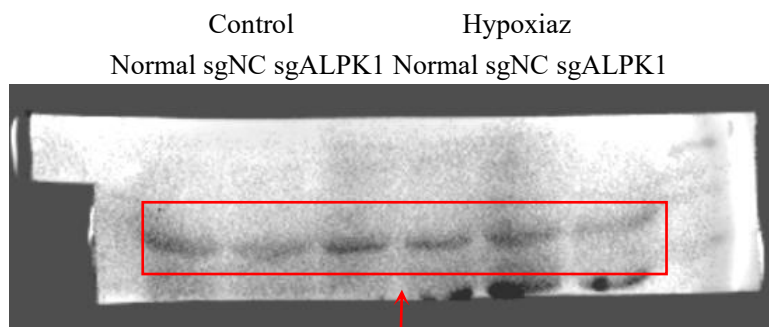
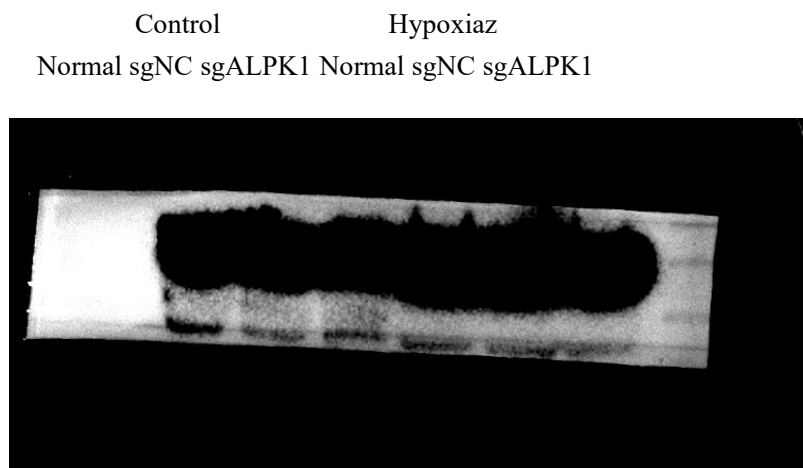
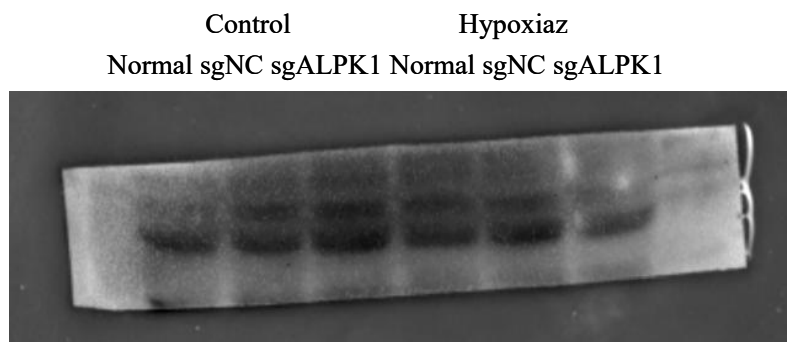


Fig5F: pro-Caspase-1



c-Caspase-1

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1

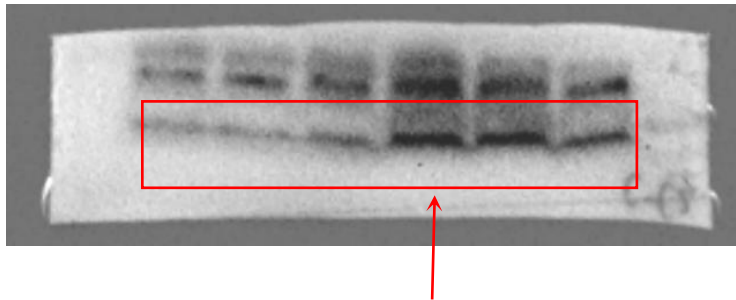
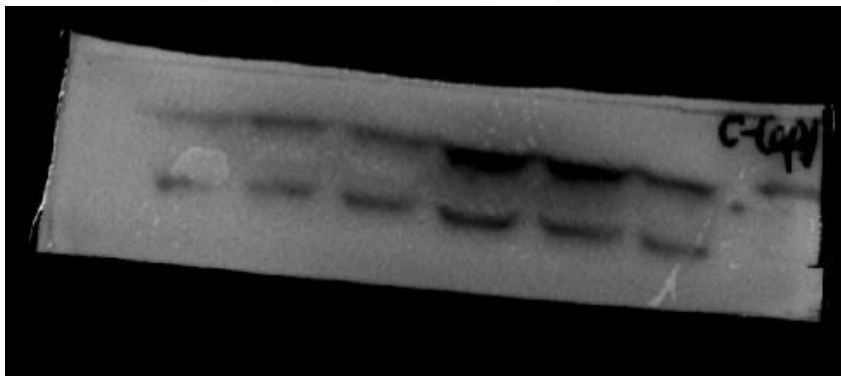
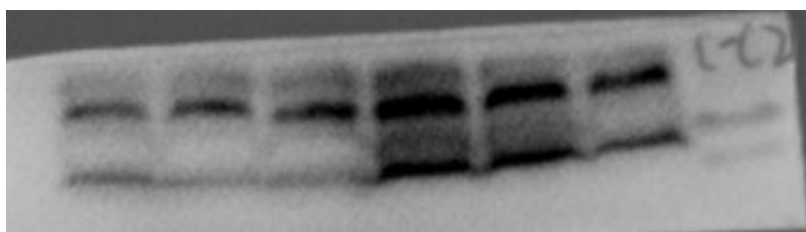


Fig5F: c-Caspase-1

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



GSDMD

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1

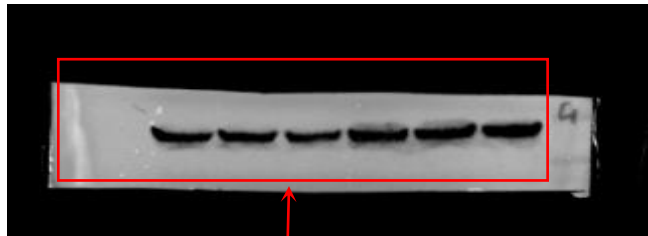
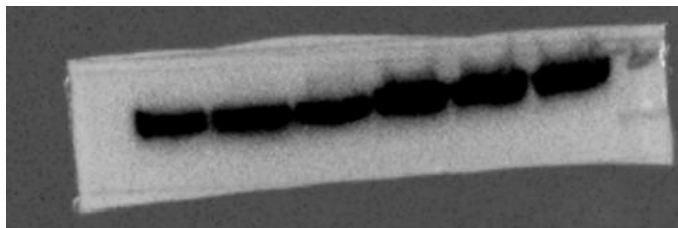
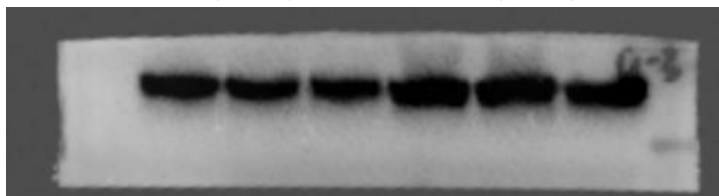


Fig5F: GSDMD

Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



Control Hypoxiaz
Normal sgNC sgALPK1 Normal sgNC sgALPK1



GSDMD-N

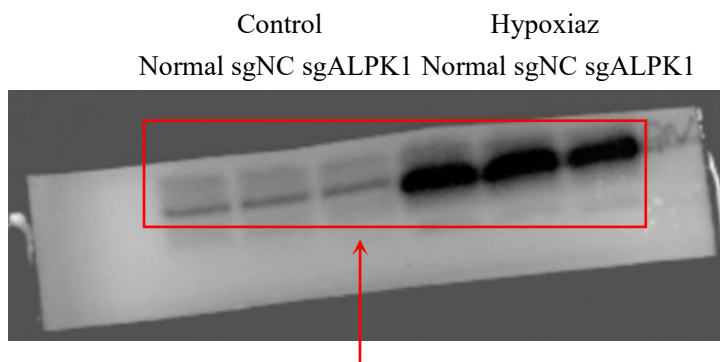
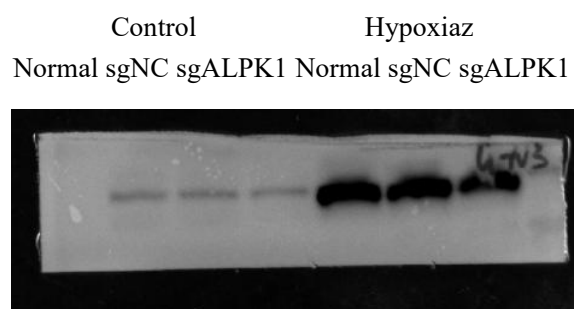
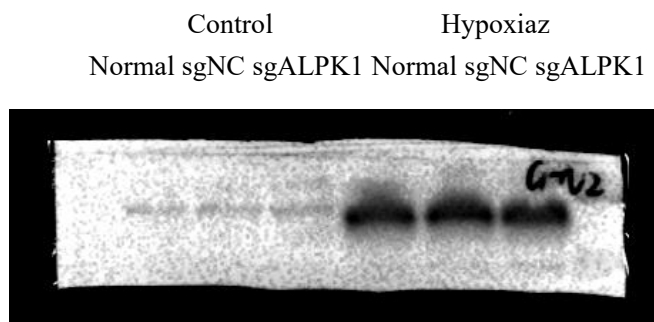
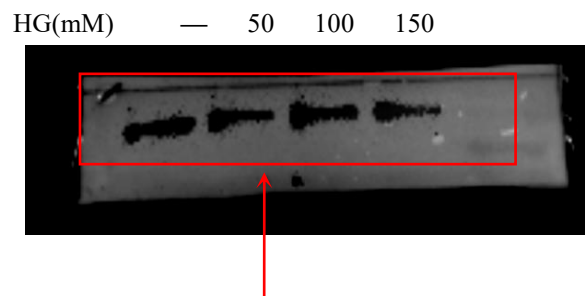
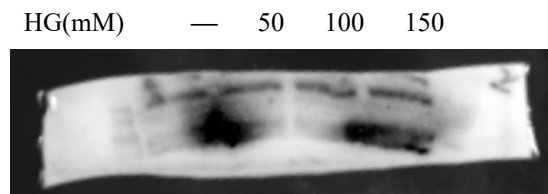
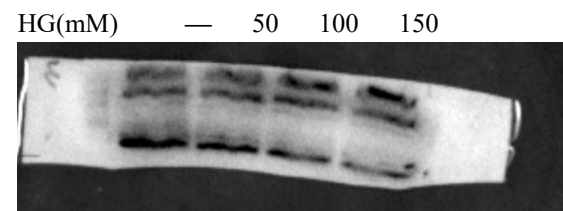


Fig5F: GSDMD-N



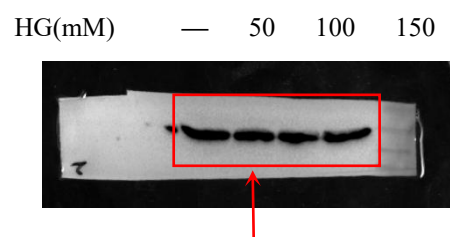
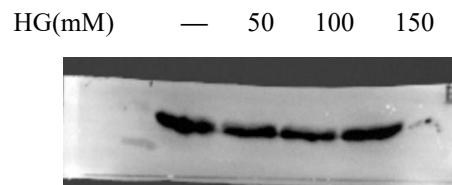
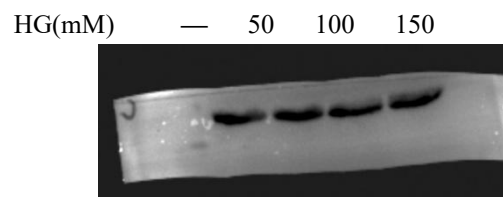
S1.Effect of high glucose on ALPK1 expression in BV2 cells.

ALPK1



S1C: ALPK1

B-actin

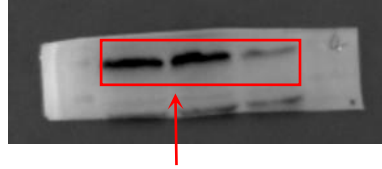


S1C: β -actin

S2.ALPK1 knockdown reduced the protein level of ALPK1 of BV2 cells

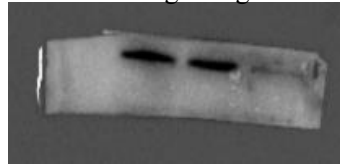
ALPK1

Normal sgNC sgALPK1

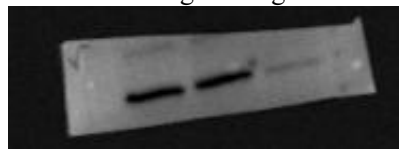


S2B: ALPK1

Normal sgNC sgALPK1

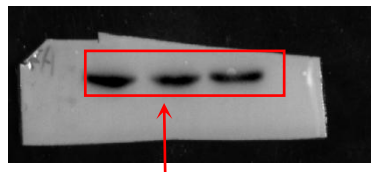


Normal sgNC sgALPK1



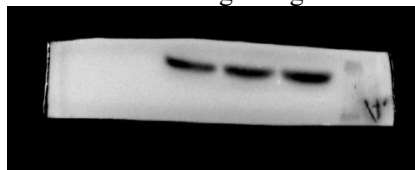
B-actin

Normal sgNC sgALPK1



S2B: B-actin

Normal sgNC sgALPK1



Normal sgNC sgALPK1

