Ablumir
Built Around Immunology

Anti-GRP78/BiP Rabbit mAb [57E30]

Catalog No.: A52173

Basic Information

Catalog No. (Cat.No.)	A52173
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	GRP78/BiP,GRP78,BiP,HSP72,HSP70 family member 5

Product Information

Target	GRP78/BiP
Molecular Weight(Calculated)	72 kDa
Molecular Weight(Observed)	78 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	57E30
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

Ablumir
Built Around Immunology

Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Glucose-regulated protein 78 kDa
Gene Name	*HSPA5*
Domain	NA
Background	GRP78/BiP (Glucose-regulated protein 78 / Binding immunoglobulin protein) is a member of the HSP70 heat-shock protein family, predominantly localized in the endoplasmic reticulum (ER) lumen. It acts as a central ER molecular chaperone responsible for folding and assembly of nascent polypeptides, as well as recognition and disposal of misfolded proteins. Its expression is strongly induced under ER stress triggered by hypoxia, oxidative injury and calcium disturbance to mitigate protein burden and promote cell survival. GRP78/BiP also modulates calcium homeostasis and lipid metabolism. Dysregulated up-regulation of GRP78/BiP drives tumor proliferation, metastasis and drug resistance, and is observed in neurodegenerative and metabolic disorders.