

BiP/GRP78 Rabbit pAb

Catalog No.: A0412

Basic Information

Observed MW

Refer to figures

Calculated MW

72kDa

Category

Primary antibody

Applications

WB,IF/ICC,FC

Cross-Reactivity

Human, Mouse

Background

The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. This protein localizes to the lumen of the endoplasmic reticulum (ER) where it operates as a typical HSP70 chaperone involved in the folding and assembly of proteins in the ER and is a master regulator of ER homeostasis. During cellular stress, as during viral infection or tumorigenesis, this protein interacts with the transmembrane stress sensor proteins PERK (protein kinase R-like endoplasmic reticulum kinase), IRE1 (inositol-requiring kinase 1), and ATF6 (activating transcription factor 6) where it acts as a repressor of the unfolded protein response (UPR) and also plays a role in cellular apoptosis and senescence. Elevated expression and atypical translocation of this protein to the cell surface has been reported in viral infections and some types of cancer cells. At the cell surface this protein may facilitate viral attachment and entry to host cells. This gene is a therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers.

Recommended Dilutions

WB	1:500 - 1:1000
IF/ICC	1:20 - 1:50
FC	1:20 - 1:50

Immunogen Information

Gene ID	Swiss Prot
3309	P11021

Immunogen

Recombinant protein of human BiP/GRP78

Synonyms

BIP; GRP78; HEL-S-89n; BiP/GRP78

Contact

 | www.abclonal.com

Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

Store at 4°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,pH7.3.