

GRP78 Polyclonal Antibody

Catalog Number: E-AB-40588

1 Publications



Note: Centrifuge before opening to ensure complete recovery of vial contents.

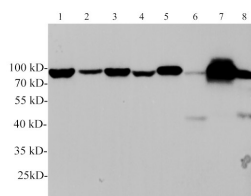
Description

Reactivity	Human, Mouse, Rat
Immunogen	Recombinant Human GRP78 protein expressed by E.coli.
Host	Rabbit
Isotype	IgG
Purification	Antigen Affinity Purification
Conjugation	Unconjugated
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH 7.4

Applications Recommended Dilution

WB	1:500-1000
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Data



Western blotting with anti-GRP78 polyclonal antibody at dilution of 1:1000. Lane 1: HeLa cell lysate, Lane 2: Jurkat cell lysate, lane 3: MCF-7 cell lysate, Lane 4: Mouse lung lysate, Lane 5: Mouse liver lysate, Lane 6: Rat lung lysate, Lane 7: Rat liver lysate, Lane 8: Rat small intestine lysate.

Observed Mw: 78kDa

Calculated Mw: 72kDa

Preparation & Storage

Storage Store at -20°C. Avoid freeze / thaw cycles.

Background

GRP78 (Glucose-regulated protein 78 kDa; also BiP and HSPA5) is a 72 kDa member of the heat shock protein 70 family of proteins. Intracellularly, GRP78 is an endoplasmic reticulum chaperone that participates in protein folding; extracellularly, it induces IL-10 production from T cells and interacts with Cripto to block TGF-beta signaling. Human GRP78 precursor is 654 amino acids (aa) in length. It contains an 18 aa signal sequence and a 636 aa mature region that shows a hydantoinase A region (aa 145-245) and a C-terminal KDEL motif that is present on intracellular GRP78, but absent on secreted GRP78. There is alternative splicing in the signal sequence (aa 1-10), and multiple single aa substitution. Over aa 1-654, human GRP78 is more than 97% aa identical to mouse and rat GRP78.

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