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# GRP78 Polyclonal Antibody

Catalog Number: E-AB-40588

1 Publications



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

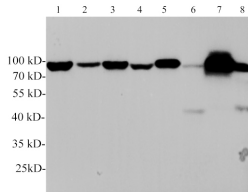
## Description

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

## Applications Recommended Dilution

<b>WB</b>	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.

## For Research Use Only

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