

## GRP78 Polyclonal Antibody

**catalog number: AN006780L**

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

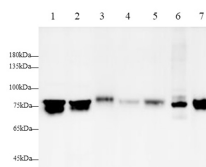
### Description

<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>Buffer</b>	PBS with 0.05% Proclin300, 1% protective protein and 50% glycerol, pH7.4

### Applications

<b>WB</b>	1:500-1:1000
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### Data



Western blot with Anti GRP78 Polyclonal antibody at dilution of 1:1000. Lane 1: HeLa cell lysate, Lane 2: MCF-7 cell lysate, Lane 3: Mouse colon tissue lysate, Lane 4: Mouse lung tissue lysate, Lane 5: Mouse liver tissue lysate, Lane 6: Mouse testis tissue lysate, Lane 7: Rat liver tissue lysate.

**Observed-MW:78 kDa**

**Calculated-MW:72 kDa**

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

### 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