For Research Use Only

**GRP78/BIP Polyclonal ANTIBODY**

**Catalog Number:** 11587-1-AP

**Basic Information**

- **Catalog Number:** 11587-1-AP
- **Size:** 86 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG2188
- **GenBank Accession Number:** BC030025
- **GeneID (NCBI):** 3309
- **Full Name:** heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)
- **Calculated MW:** 78 kDa
- **Observed MW:** 70-78 kDa

**Recommended Dilutions:**
- **WB:** 1:3000-1:8000
- **IP:** 0.5-4.0 μg for IP and 1:200 for WB
- **IHC:** 1:50-1:500
- **IF:** 1:50-1:500

**Applications**

- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA
- **Cited Applications:** IF, IHC, IP, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** Hamster, human, mouse, rat, zebrafish

**Background Information**

GRP78 (HSPA5), also referred to as 'immunoglobulin heavy chain-binding protein' (BiP), is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum (ER). It is a constitutively expressed resident protein of the ER in all eukaryotic cells. Recently it has been reported that GRP78 is associated with apoptosis or inhibition of cancer cell growth. 11587-1-AP antibody recognizes one or two bands with MW 70-78 kDa for the signal peptide of GRP78 protein can be finally cleaved.

**Notable Publications**

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<th>Author</th>
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<td>Bing Sun</td>
<td>27694953</td>
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<td>Hui Gao</td>
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<td>Yonghua Chen</td>
<td>30181379</td>
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**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Various lysates were subjected to SDS PAGE followed by western blot with 11587-1-AP (GRP78/BIP antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

BxPC-3 cells were subjected to SDS PAGE followed by western blot with 11587-1-AP (GRP78/BIP antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded mouse kidney tissue slide using 11587-1-AP (GRP78/BIP antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11587-1-AP (GRP78/BIP antibody) at dilution of 1:50 and Alexa Fluor 488 Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

IP Result of anti-GRP78/BIP (IP:11587-1-AP, 3ug; Detection:11587-1-AP 1:1000) with MCF-7 cells lysate 3250ug.