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Datasheet for ABIN3044191

## anti-GRP78 antibody (C-Term)

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### Overview

Quantity:	100 µg
Target:	GRP78 (HSPA5)
Binding Specificity:	AA 603-617, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRP78 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for 78 kDa glucose-regulated protein(HSPA5) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human GRP78 BiP(603-617aa EWLESHQDADIEDFK), identical to the related mouse and rat sequences.
Sequence:	EWLESHQDAD IEDFK
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

## Product Details

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Characteristics:	Rabbit IgG polyclonal antibody for 78 kDa glucose-regulated protein(HSPA5) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat. Gene Name: heat shock 70 kDa protein 5(glucose-regulated protein, 78 kDa) Protein Name: 78 kDa glucose-regulated protein
Purification:	Immunogen affinity purified.

## Target Details

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Target:	GRP78 (HSPA5)
Alternative Name:	HSPA5 ( <a href="#">HSPA5 Products</a> )

**Background:** HSPA5(heat shock 70 kDa protein 5) also known as glucose-regulated protein, 78kD(GRP78) or 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. BiP is also an essential component of the translocation machinery, as well as playing a role in retrograde transport across the ER membrane of aberrant proteins destined for degradation by the proteasome. The HSPA5 gene is mapped on 9q33.3. Shen et al.(2002) concluded that HSPA5 retains ATF6 in the ER by inhibiting its Golgi localization signals and that dissociation of HSPA5 during ER stress allows ATF6 to be transported to the Golgi. The findings of Shen et al.(2002) demonstrated that HSPA5 is a key element in sensing the folding capacity within the ER.

Synonyms: 78 kDa glucose regulated protein antibody|78 kDa glucose-regulated protein antibody|AL022860 antibody|AU019543 antibody|BiP antibody|D2Wsu141e antibody|D2Wsu17e antibody|Endoplasmic reticulum luminal Ca(2+)-binding protein grp78 antibody|Endoplasmic reticulum luminal Ca2+ binding protein grp78 antibody|FLJ26106 antibody|Glucose Regulated Protein 78 kDa antibody|GRP 78 antibody|GRP-78 antibody|GRP78 antibody|GRP78\_HUMAN antibody|Heat shock 70 kDa protein 5 antibody|Heat Shock 70 kDa Protein 5 antibody|Hsce70 antibody|HSPA 5 antibody|HSPA5 antibody|Immunoglobulin Heavy Chain Binding Protein antibody|Immunoglobulin heavy chain-binding protein antibody|mbiP antibody|MIF2 antibody|Sez7 antibody

UniProt:	<a href="#">P11021</a>
Pathways:	<a href="#">Thyroid Hormone Synthesis, ER-Nucleus Signaling</a>

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse

## Application Details

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IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,  
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for  
20 mins is required for the staining of formalin/paraffin sections.

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse

ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be  
fit for the product based on sequence similarities. Other applications have not been tested.

Optimal dilutions should be determined by end users.

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Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by  
ABIN921231 in IHC(P), IHC(F) and ICC.

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg  
Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND  
HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing  
and thawing.

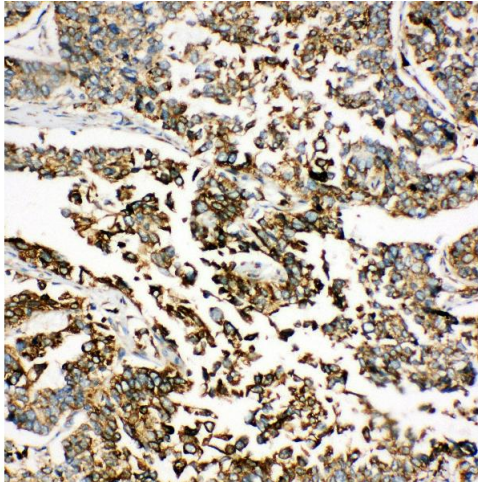
Expiry Date: 12 months

## Publications

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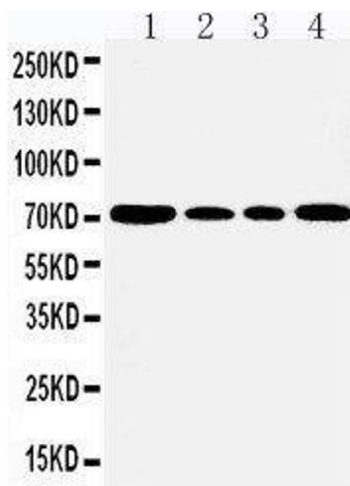
Product cited in: Yu, Chen, Jiang: "Administration of pigment epithelium-derived factor delivered by adeno-  
associated virus inhibits blood-retinal barrier breakdown in diabetic rats." in: **Molecular vision**,

Images



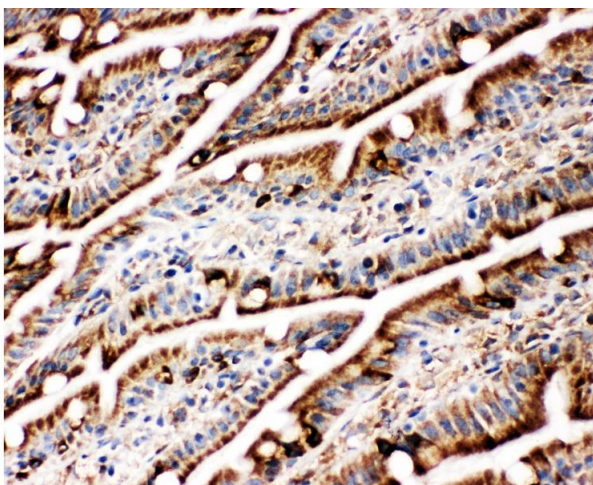
**Immunohistochemistry**

**Image 1.** Anti-GRP78 BiP antibody, IHC(P) IHC(P): Human Lung Cancer Tissue



**Western Blotting**

**Image 2.** Anti-GRP78 BiP antibody, Western blotting Lane 1: Rat Testis Tissue Lysate Lane 2: A549 Cell Lysate Lane 3: MCF-7 Cell Lysate Lane 4: HELA Cell Lysate



**Immunohistochemistry**

**Image 3.** Anti-GRP78 BiP antibody, IHC(F) IHC(F): Rat Intestine Tissue

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3044191.