

A6625

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## ORP150/GRP170/HSP12A Rabbit pAb

Catalog No.: A6625

### Basic Information

#### Observed MW

150kDa

#### Calculated MW

111kDa

#### Category

Mouse Monoclonal Antibody

#### Applications

WB, IHC-P, ELISA

#### Cross-Reactivity

Human, Mouse

### Background

The protein encoded by this gene belongs to the heat shock protein 70 family. This gene uses alternative transcription start sites. A cis-acting segment found in the 5' UTR is involved in stress-dependent induction, resulting in the accumulation of this protein in the endoplasmic reticulum (ER) under hypoxic conditions. The protein encoded by this gene is thought to play an important role in protein folding and secretion in the ER. Since suppression of the protein is associated with accelerated apoptosis, it is also suggested to have an important cytoprotective role in hypoxia-induced cellular perturbation. This protein has been shown to be up-regulated in tumors, especially in breast tumors, and thus it is associated with tumor invasiveness. This gene also has an alternative translation initiation site, resulting in a protein that lacks the N-terminal signal peptide. This signal peptide-lacking protein, which is only 3 amino acids shorter than the mature protein in the ER, is thought to have a housekeeping function in the cytosol. In rat, this protein localizes to both the ER by a carboxy-terminal peptide sequence and to mitochondria by an amino-terminal targeting signal. Alternative splicing results in multiple transcript variants.

### Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:200

### Immunogen Information

#### Gene ID

10525

#### Swiss Prot

Q9Y4L1

#### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human ORP150/GRP170/HSP12A (NP\_001124463.1).

#### Synonyms

IMD59; Grp170; HSP12A; ORP150; GRP-170; ORP-150; ORP150/GRP170/HSP12A

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Product Information

#### Source

Rabbit

#### Isotype

IgG

#### Purification

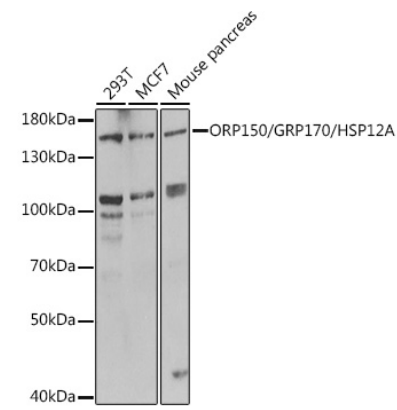
Affinity purification

#### Storage

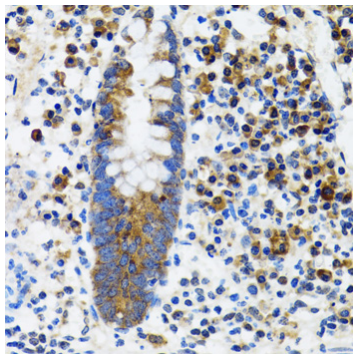
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

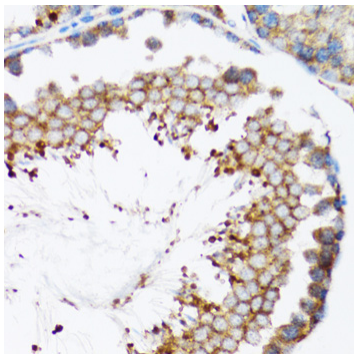
Validation Data



Western blot analysis of various lysates using ORP150/GRP170/HSP12A Rabbit pAb (A6625) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 15min.



Immunohistochemistry analysis of ORP150/GRP170/HSP12A in paraffin-embedded human vermiform appendix using ORP150/GRP170/HSP12A Rabbit pAb (A6625) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of ORP150/GRP170/HSP12A in paraffin-embedded mouse testis using ORP150/GRP170/HSP12A Rabbit pAb (A6625) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.