

Datasheet for ABIN6142107
anti-HYOU1 antibody (AA 1-140)

3 Images

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Overview

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|----------------------|---|
| Quantity: | 100 µL |
| Target: | HYOU1 |
| Binding Specificity: | AA 1-140 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This HYOU1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

Product Details

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|-------------------|--|
| Immunogen: | Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human ORP150/GRP170/HSP12A (NP_001124463.1). |
| Sequence: | MADKVRQRQP RRRVCWALVA VLLADLLALS DTLAVMSVDL GSESMKVAIV KPGVPMEIVL NKESRRKTPV IVTLKENERF FGDSAASMAI KNPKATLRYF QHLLGKQADN PHVALYQARF PEHELT FDPQ RQTVHFQISS |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse |
| Characteristics: | Polyclonal Antibodies |
| Purification: | Affinity purification |

Target Details

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|-------------------|---|
| Target: | HYOU1 |
| Alternative Name: | HYOU1 (HYOU1 Products) |
| Background: | <p>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.,HYOU1,GRP-170,Grp170,HSP12A,ORP-150,ORP150,Epigenetics & Nuclear Signaling,Cancer,Invasion and Metastasis,Signal Transduction,Endocrine & Metabolism,Neuroscience,Neurodegenerative Diseases,Cardiovascular,Hypoxia,Hypoxia-related proteins,HYOU1</p> |
| Molecular Weight: | 62 kDa/111 kDa |
| Gene ID: | 10525 |
| UniProt: | Q9Y4L1 |
| Pathways: | ER-Nucleus Signaling , SARS-CoV-2 Protein Interactome |

Application Details

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| Application Notes: | WB,1:500 - 1:2000,IHC,1:50 - 1:200 |
| Restrictions: | For Research Use only |

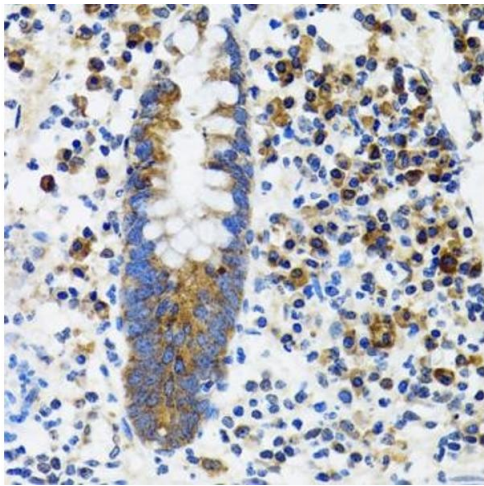
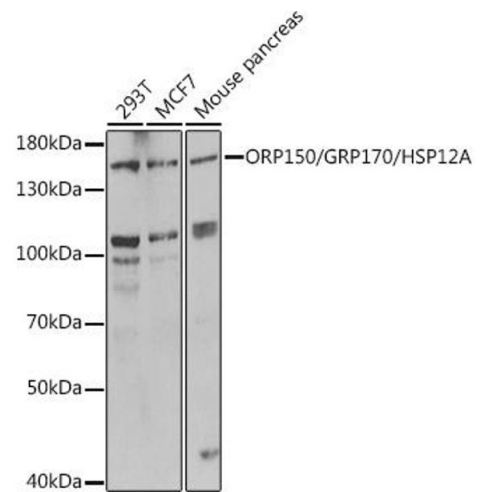
Handling

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| Format: | Liquid |
| Buffer: | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3. |
| Preservative: | Sodium azide |

Handling

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| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Avoid freeze / thaw cycles. |

Images

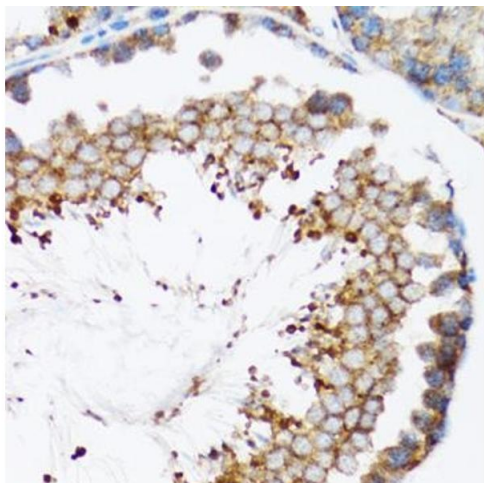


Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using ORP150/GRP170/HSP12A antibody (ABIN6129172, ABIN6142107, ABIN6142109 and ABIN6222317) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 15 min.

Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human vermiform appendix using ORP150/GRP170/HSP12A antibody (ABIN6129172, ABIN6142107, ABIN6142109 and ABIN6222317) 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

Image 3. Immunohistochemistry of paraffin-embedded mouse testis using ORP150/GRP170/HSP12A antibody (ABIN6129172, ABIN6142107, ABIN6142109 and ABIN6222317) 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.