

## Rabbit ORP150/HYOU1 Polyclonal Antibody | anti-HYOU1 antibody

Anti-ORP150/HYOU1 Antibody Picoband

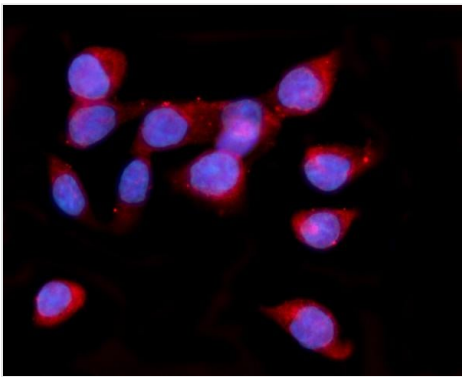
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA19530  | Rabbit | Human, Mouse, Rat | Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, ELISA |

### PRODUCT SYNONYMS

ORP150/HYOU1; Polyclonal Antibody; Anti-ORP150/HYOU1 Antibody Picoband; anti-HYOU1 antibody

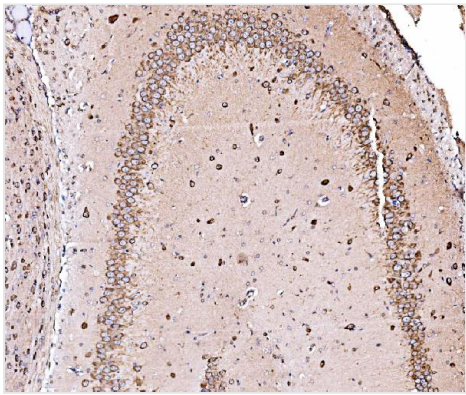
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                               |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                           |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                           |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                         |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                             |
| Concentration                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-HYOU1 antibody | WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), ELISA                                                                                                                                                                                                                                                             |
| Application Notes                               | WB: 0.1-0.25 ug/ml, Human, Mouse, Rat<br>IHC-P: 1-2 ug/ml, Human, Mouse, Rat<br>ICC/IF: 5 ug/ml, Human<br>Direct ELISA: 0.1-0.5 ug/ml, Human<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC. |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                            |
| Immunogen                                       | E Coli-derived human ORP150/HYOU1 recombinant protein (Position: K46-K913).                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                         | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.                                                                                                                                         |



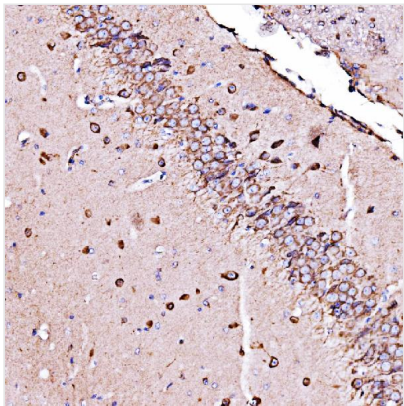
**IF (Immunofluorescence)**

Figure 10. IF analysis of ORP150/HYOU1 using anti-ORP150/HYOU1 antibody (AAA19530).ORP150/HYOU1 was detected in an immunocytochemical section of CACO-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ORP150/HYOU1 Antibody (AAA19530) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



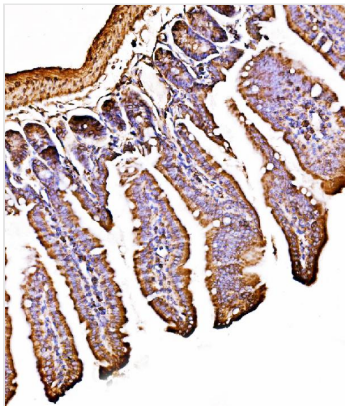
**IHC (Immunohistochemistry)**

Figure 9. IHC analysis of ORP150/HYOU1 using anti-ORP150/HYOU1 antibody (AAA19530).ORP150/HYOU1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ORP150/HYOU1 Antibody (AAA19530) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



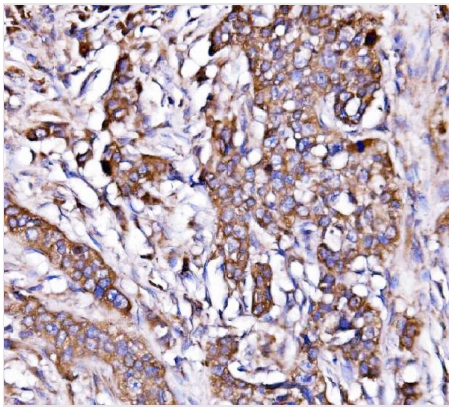
**IHC (Immunohistochemistry)**

Figure 8. IHC analysis of ORP150/HYOU1 using anti-ORP150/HYOU1 antibody (AAA19530).ORP150/HYOU1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ORP150/HYOU1 Antibody (AAA19530) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



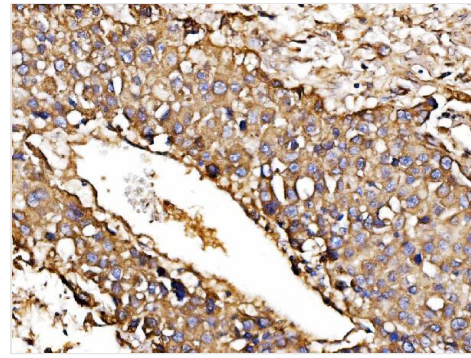
**IHC (Immunohistochemistry)**

Figure 7. IHC analysis of ORP150/HYOU1 using anti-ORP150/HYOU1 antibody (AAA19530).ORP150/HYOU1 was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ORP150/HYOU1 Antibody (AAA19530) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 6. IHC analysis of ORP150/HYOU1 using anti-ORP150/HYOU1 antibody (AAA19530). ORP150/HYOU1 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ORP150/HYOU1 Antibody (AAA19530) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 5. IHC analysis of ORP150/HYOU1 using anti-ORP150/HYOU1 antibody (AAA19530). ORP150/HYOU1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ORP150/HYOU1 Antibody (AAA19530) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

## ADDITIONAL INFORMATION

#### Related Product Information for anti-HYOU1 antibody

Hypoxia up-regulated protein 1 is a protein that in humans is encoded by the HYOU1 gene. 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.

#### Product Categories/Family for anti-HYOU1 antibody

Primary Antibodies, Rabbit Polyclonal Antibodies

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 47938913                                                                                                                                                             |
| NCBI GeneID                      | 10525                                                                                                                                                                |
| UniProt Accession #              | Q9Y4L1; Q2I204; Q53H25; A8C1Z0                                                                                                                                       |
| Molecular Weight                 | 111,335 Da                                                                                                                                                           |
| NCBI Official Full Name          | HYOU1 protein                                                                                                                                                        |
| NCBI Official Synonym Full Names | hypoxia up-regulated 1                                                                                                                                               |
| NCBI Official Symbol             | HYOU1                                                                                                                                                                |
| NCBI Official Synonym Symbols    | Grp170; HSP12A; ORP150; GRP-170; ORP-150                                                                                                                             |
| NCBI Protein Information         | hypoxia up-regulated protein 1; glucose-regulated protein 170; 150 kDa oxygen-regulated protein; oxygen regulated protein (150kD); 170 kDa glucose-regulated protein |
| UniProt Protein Name             | Hypoxia up-regulated protein 1                                                                                                                                       |
| UniProt Gene Name                | HYOU1                                                                                                                                                                |

|                            |                                  |
|----------------------------|----------------------------------|
| UniProt Synonym Gene Names | GRP170; ORP150; ORP-150; GRP-170 |
| UniProt Entry Name         | HYOU1_HUMAN                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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