

A Reliable Research Partner in Life Science and Medicine

## Recombinant ORP150/ORP150/HYOU1/HSP12A Monoclonal Antibody

catalog number: AN300399P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Reactivity Human

Immunogen Recombinant Human ORP150/HYOU1/HSP12A protein

Host Rabbit
Isotype IgG
Clone B325
Purification Protein A

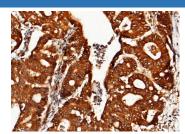
Buffer 0.2 µm filtered solution in PBS

# Applications Recommended Dilution

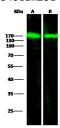
WB 1:500-1:2000 IHC-P 1:100-1:500 ICC/IF 1:20-1:100

**IP** 1-4 μL/mg of lysate

#### Data

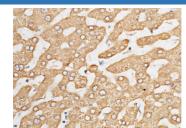


Immunohistochemistry of paraffin-embedded human colon carcinoma using ORP150/ORP150/HYOU1/HSP12A Monoclonal Antibody at dilution of 1:200. Positive staining was localized to colonic gland.

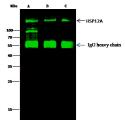


Western Blot with HSP12A Monoclonal Antibody at dilution of 1:500 dilution. Lane A: 293T Whole Cell Lysate, Lane B: Hela Whole Cell Lysate, Lysates/proteins at 30 µg per lane.

Observed-MW:170 kDa Calculated-MW:111 kDa



Immunohistochemistry of paraffin-embedded human cirrhosis using ORP150/ORP150/HYOU1/HSP12A Monoclonal Antibody at dilution of 1:200. Positive staining was localized to hepatocyte.



Immunoprecipitation analysis using 2  $\mu$ L anti-HSP12A Monoclonal Antibody and 15  $\mu$ l of 50 % Protein G agarose. Western blot was performed from the immunoprecipitate using HSP12A Monoclonal Antibody at a dilution of 1:100. Lane A:0.5 mg MCF-7 Whole Cell Lysate, Lane B:0.5 mg 293T Whole Cell Lysate, Lane C:0.5 mg Hela Whole Cell Lysate

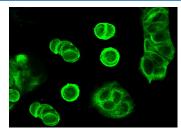
Observed-MW:170 kDa Calculated-MW:111 kDa

### For Research Use Only

#### Elabscience Bionovation Inc.



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Immunofluorescence analysis of ORP150 in MCF7 cells.
Cells were fixed with 4% PFA, permeabilzed with 0.1%
Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-Human ORP150 monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Cytoplasm.

### **Preparation & Storage**

**Storage** This antibody can be stored at 2°C-8°C for one month without detectable loss of

activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

Shipping Ice bag

#### **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 aminoterminal targeting signal. Alternative splicing results in multiple transcript variants.