

Rabbit anti-Human ORP150 Monoclonal Antibody | anti-HYOU1 antibody

Recombinant Anti-ORP150 Antibody, Rabbit Monoclonal

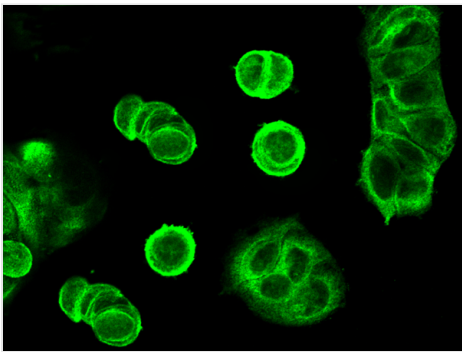
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255404	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

ORP150; Monoclonal Antibody; Recombinant Anti-ORP150 Antibody; Rabbit Monoclonal; ORP150/ORP150/HYOU1/HSP12A Antibody; Rabbit MAb; hypoxia up-regulated 1; Anti-GRP-170 Antibody; Anti-Grp170 Antibody; Anti-HSP12A Antibody; Anti-ORP-150 Antibody; Anti-ORP150 Antibody; anti-HYOU1 antibody

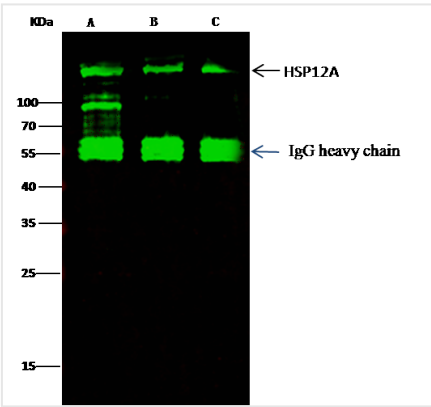
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	201
Specificity	Human ORP150/HYOU1/HSP12A. No cross-reactivity in ELISA with Human Fetuin A
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-HYOU1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human ORP150/HYOU1/HSP12A protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human ORP150/HYOU1/HSP12A (rh ORP150/HYOU1/HSP12A).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



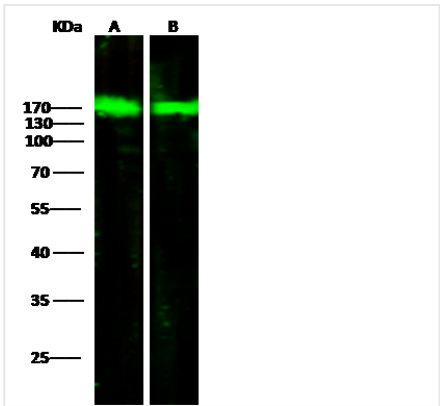
IF (Immunofluorescence)

Immunofluorescence staining of ORP150 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized 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 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Cytoplasm.



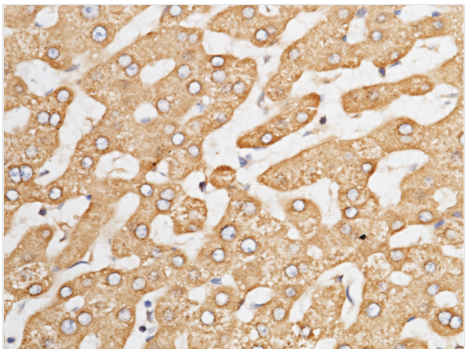
IP (Immunoprecipitation)

HSP12A was immunoprecipitated using: 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 2 uL anti-HSP12A rabbit monoclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-HSP12A rabbit monoclonal antibody, at 1:100 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 111 kDa Observed band size: 111 kDa



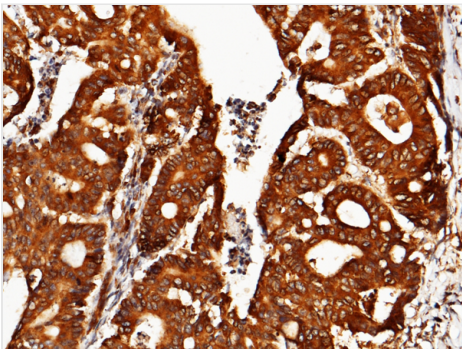
WB (Western Blot)

Anti-HSP12A rabbit monoclonal antibody at 1:500 dilution Lane A: 293T Whole Cell Lysate Lane B: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 111 kDa Observed band size: 170 kDa



IHC (Immunohistochemistry)

Immunochemical staining of human HSP12A in human cirrhosis with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to hepatocyte.



IHC (Immunohistochemistry)

Immunochemical staining of human HSP12A in human colon carcinoma with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to colonic gland.

ADDITIONAL INFORMATION

Related Product Information for anti-HYOU1 antibody	Hypoxia up-regulated protein 1, also known as 15 kDa oxygen-regulated protein, 17 kDa glucose-regulated protein, ORP-15, GRP-17, and HYOU1, is a member of the heat shock protein 7 family. Seven members from four different heat shock protein (HSP) families were identified including HYOU1 (ORP15), HSPC1 (HSP86), HSPA5 (Bip), HSPD1 (HSP6), and several isoforms of the two testis-specific HSP7 chaperones HSPA2 and HSPA1L. HYOU1 is highly expressed in tissues that contain well-developed endoplasmic reticulum and synthesize large amounts of secretory proteins. It is highly expressed in the liver and pancreas. HYOU1 is also expressed in macrophages within aortic atherosclerotic plaques and in breast cancers. HYOU1 has a pivotal role in cytoprotective cellular mechanisms triggered by oxygen deprivation. It may play a role as a molecular chaperone and participate in protein folding. Suppression of HYOU1 is associated with accelerated apoptosis. It is suggested to have an important cytoprotective role in hypoxia-induced cellular perturbation. This protein is up-regulated in tumors, especially in breast tumors, and thus it is associated with tumor invasiveness.
References	Ikeda J., et al., (1997), Cloning and expression of cDNA encoding the human 150 kDa oxygen-regulated protein, ORP150. Biochem. Biophys. Res. Commun. 230:94-99.Kaneda S., et al., (2000), Production of three distinct mRNAs of 150 kDa oxygen-regulated protein (ORP150) by alternative promoters: preferential induction of one species under stress conditions.J. Biochem. 128:529-538.Takeuchi S., (2006), Molecular cloning, sequence, function and structural basis of human heart 150 kDa oxygen-regulated protein, an ER chaperone.Protein J. 25:517-528.

NCBI AND UNIPROT INFORMATION

NCBI GI #	195976805
NCBI GeneID	10525
NCBI Accession #	NP_001124463.1
NCBI GenBank Nucleotide #	NM_001130991.2
UniProt Accession #	Q9Y4L1; Q2I204; Q53H25; A8C1Z0; B7Z909
Molecular Weight	62,757 Da
NCBI Official Full Name	hypoxia up-regulated protein 1
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
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/orp150-antibody-clone-201-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/255404>