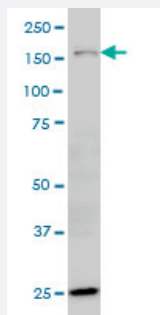


HYOU1 monoclonal antibody (M01), clone 6F7

Catalog # H00010525-M01

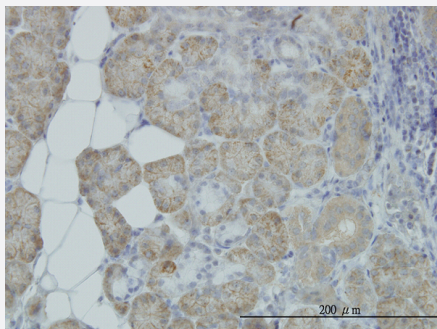
Size 100 ug

Applications



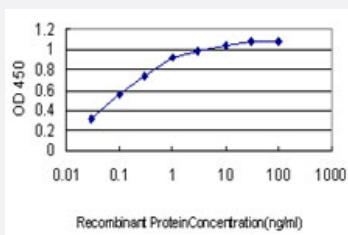
Western Blot (Cell lysate)

HYOU1 monoclonal antibody (M01), clone 6F7 Western Blot analysis of HYOU1 expression in MCF-7 (Cat # L046V1).



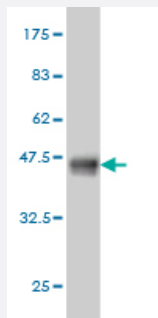
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HYOU1 on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 1 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HYOU1 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant HYOU1.
Immunogen	HYOU1 (NP_006380, 901 a.a. ~ 999 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EVQYLLNKAFTKPRPRPKDKNGTRAEPPLNASASDQGEKVIPPAGQTEDAEPISSEPEKVTGSEPGDTEPLELGGPGAEPQKEQSTGQKRPLKNDEL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (93); Rat (93)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

HYOU1 monoclonal antibody (M01), clone 6F7 Western Blot analysis of HYOU1 expression in MCF-7 (Cat # L046V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HYOU1 on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 1 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HYOU1 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — HYOU1

Entrez GeneID	10525
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GeneBank Accession#	NM_006389
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Protein Accession#	NP_006380
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Gene Name	HYOU1
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Gene Alias	DKFZp686N08236, FLJ94899, FLJ97572, Grp170, HSP12A, ORP150
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Gene Description	hypoxia up-regulated 1
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Omim ID	601746
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Gene Ontology	Hyperlink
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Gene Summary

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. [provided by RefSeq]

Other Designations

150 kDa oxygen-regulated protein|glucose-regulated protein 170|oxygen regulated protein (150kD)

Publication Reference

- [Limited expression of reticulocalbin-1 in lymphatic endothelial cells in lung tumor but not in normal lung.](#)

Yoshida Y, Yamashita T, Nagano K, Imai S, Nabeshi H, Yoshikawa T, Yoshioka Y, Abe Y, Kamada H, Tsutsumi Y, Tsunoda SI. Biochemical and Biophysical Research Communications 2011 Feb; 405(4):610.

Application: IHC, Tissue Microarray, Human, Lung

- [Proteinuria and Hyperglycemia Induce Endoplasmic Reticulum Stress.](#)

Lindenmeyer MT, Rastaldi MP, Ikehata M, Neusser MA, Kretzler M, Cohen CD, Schlondorff D. Journal of the American Society of Nephrology 2008 Sep; 19(11):2225.

Application: IF, Human, Normal kidneys or from patients with established diabetic nephropathy (DN) or minimal-change disease (MCD)

- [Mechanism of cancer cell adaptation to metabolic stress: proteomics identification of a novel thyroid hormone mediated gastric carcinogenic signaling pathway.](#)

Liu R, Li Z, Bai S, Zhang H, Tang M, Lei Y, Chen L, Liang S, Zhao YL, Wei Y, Huang C. Molecular & Cellular Proteomics 2008 Aug; 8(1):70.

Application: WB-Ti, Human, Human gastric cancer

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)

- [Edema](#)