

HYOU1 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H Mk	Endogenous	150	Rabbit	#Q9Y4L1	10525

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

HYOU1 Antibody recognizes endogenous levels of total HYOU1 protein. This antibody reacts weakly with murine and rat HYOU1.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human HYOU1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Hypoxia up-regulated protein 1 (HYOU1, ORP150) is an endoplasmic reticulum (ER)-resident stress protein whose expression is upregulated in response to a variety of environmental conditions that promote ER stress (1,2). The amino-terminal region of HYOU1 displays extensive similarity to the ATPase domain of HSP70 family proteins, suggesting that HYOU1 contributes to maintaining proper protein folding and secretion under conditions that promote ER stress (2). Research studies have demonstrated that HYOU1 is cytoprotective and is involved in the inhibition of hypoxia-induced cell death (3).

Background References

1. Kaneda, S. et al. (2000) *J Biochem* 128, 529-38.
2. Ikeda, J. et al. (1997) *Biochem Biophys Res Commun* 230, 94-9.
3. Ozawa, K. et al. (1999) *J Biol Chem* 274, 6397-404.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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