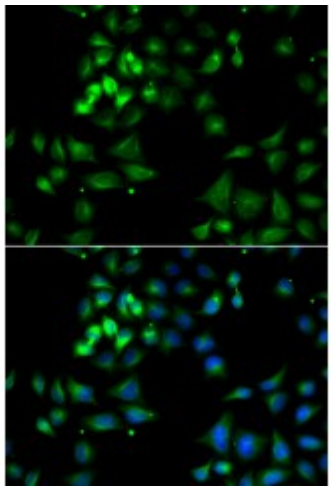
Anti-HYOU1 Antibody



Description	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.

Model	STJ114199
Host	Rabbit
Reactivity	Human
Applications	IF
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human HYOU1 (NP_001124463.1).
Gene ID	10525

Gene Symbol	HYOU1
Dilution range	IF 1:50 - 1:200
Tissue Specificity	Highly expressed in tissues that contain well-developed endoplasmic reticulum and synthesize large amounts of secretory proteins, Highly expressed in liver and pancreas and lower expression in brain and kidney, Also expressed in macrophages within aortic atherosclerotic plaques, and in breast cancers
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Hypoxia up-regulated protein 1 150 kDa oxygen-regulated protein ORP-150 170 kDa glucose-regulated protein GRP-170
Molecular Weight	111.335 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:16931OMIM:601746Reactome:R-HSA-3000484
Alternative Names	Hypoxia up-regulated protein 1 150 kDa oxygen-regulated protein ORP-150 170 kDa glucose-regulated protein GRP-170
Function	Has a pivotal role in cytoprotective cellular mechanisms triggered by oxygen deprivation, May play a role as a molecular chaperone and participate in protein folding,
Cellular Localization	Endoplasmic reticulum lumen