

ORP150 Conjugated Antibody

Catalog No: #C49951



Package Size: #C49951-AF350 100ul #C49951-AF405 100ul #C49951-AF488 100ul
 #C49951-AF555 100ul #C49951-AF594 100ul #C49951-AF647 100ul
 #C49951-AF680 100ul #C49951-AF750 100ul #C49951-Biotin 100ul

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Description

Product Name	ORP150 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein within human ORP150 aa 800-950.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	150 kDa oxygen regulated protein antibody 150 kDa oxygen-regulated protein antibody 170 kDa glucose regulated protein antibody 170 kDa glucose-regulated protein antibody DKFZp686N08236 antibody FLJ94899 antibody FLJ97572 antibody glucose regulated protein 170 antibody Grp 170 antibody GRP-170 antibody Grp170 antibody HSP 12A antibody HSP12A antibody Hyou1 antibody HYOU1_HUMAN antibody Hypoxia up regulated 1 antibody hypoxia up-regulated 1 precursor antibody Hypoxia up-regulated protein 1 antibody Hypoxia upregulated 1 antibody Orp 150 antibody ORP-150 antibody Orp150 antibody oxygen regulated protein (150kD) antibody
Accession No.	Swiss-Prot#:Q9Y4L1
Uniprot	Q9Y4L1
GeneID	10525;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	111 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

ORP150, also known as HYOU1 (hypoxia upregulated 1), is a 999 amino acid protein that localizes to the lumen of the endoplasmic reticulum (ER) and is a member of the heat shock protein 70 (HSP 70) family. ORP150 is highly expressed in tissues that have well-developed ERs and a large number of secretory proteins (such as liver and pancreas). It is expressed at lower levels in kidney and brain, and plays an essential role in cytoprotective cellular responses to hypoxia (oxygen deprivation). Specifically, ORP150 participates in protein folding and secretion in the ER and functions to protect cells from hypoxia-induced apoptosis, thereby playing a crucial role in cell survival. ORP150 expression is upregulated in a variety of tumors, such as breast cancer, suggesting an important role in tumorigenesis. The gene encoding ORP150 has two translation initiation sites, resulting in a truncated transcript that lacks an ER signal peptide, but is thought to function as a housekeeping protein in the cytoplasm.

Note: This product is for in vitro research use only