10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-ORP150 Rabbit Monoclonal Antibody
Catalog # ABO15423

Specification

Anti-ORP150 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, FC**
Primary Accession	Q9Y4L1
Host	**Rabbit**
Isotype	**IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-ORP150 Rabbit Monoclonal Antibody . Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-ORP150 Rabbit Monoclonal Antibody - Additional Information

Gene ID 10525

Other Names
Hypoxia up-regulated protein 1, 150 kDa oxygen-regulated protein, ORP-150, 170 kDa glucose-regulated protein, GRP-170, Heat shock protein family H member 4, HYOU1, GRP170, HSPH4 {ECO:0000303|PubMed:18663603}, ORP150

Calculated MW
150 kDa KDa

Application Details
WB 1:500-1:2000
IHC 1:50-1:200
FC 1:50

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human ORP150

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-ORP150 Rabbit Monoclonal Antibody - Protein Information

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Name HYOU1

Synonyms GRP170, HSPH4 {ECO:0000303|PubMed:186636

Function
Has a pivotal role in cytoprotective cellular mechanisms triggered by oxygen deprivation. Promotes HSPA5/BiP-mediated ATP nucleotide exchange and thereby activates the unfolded protein response (UPR) pathway in the presence of endoplasmic reticulum stress (By similarity). May play a role as a molecular chaperone and participate in protein folding.

Cellular Location
Endoplasmic reticulum lumen.

Tissue Location
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

Anti-ORP150 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ORP150 Rabbit Monoclonal Antibody - Images

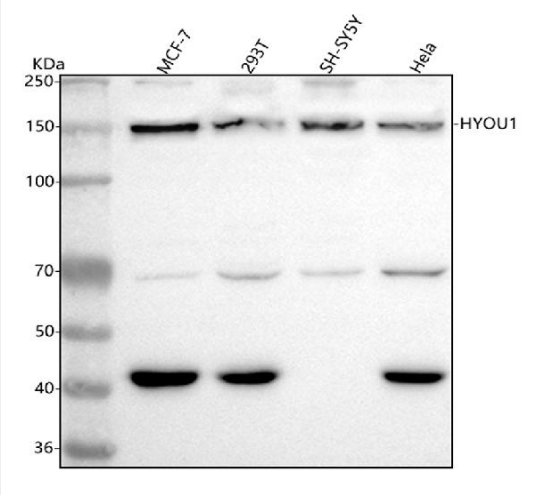

Figure 1. Western blot analysis of ORP150 using anti-ORP150 antibody (M04934-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

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Lane 1: human MCF-7 whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: human SH-SY5Y whole cell lysates,
Lane 4: human Hela whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ORP150 antigen affinity purified monoclonal antibody (Catalog # M04934-2) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ORP150 at approximately 150 kDa. The expected band size for ORP150 is at 111 kDa.