

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ORP150/HSP12A in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) HSP-70, rhHSPA-2, and rhHSPH-1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ORP150/HSP12A Met695-Leu994 Accession # Q9Y4L1
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ORP150 (Oxygen-related protein of 150 kDa) is a member of the heat shock protein 70 family of molecules. Although the predicted MW is 111 kDa, it runs at 150 kDa in SDS-PAGE. The discrepancy may not be anomalous, since it is secreted into the ER lumen and likely to be glycosylated and/or phosphorylated. ORP150 is highly expressed in cells involved in secretion such as pancreatic acinar cells and hepatocytes. Mature human ORP150 is 967 amino acids (aa) in length. It contains two HSP70 signatures (aa 230-243 and 380-394) and an ER-retention signal (aa 996-999). There are multiple isoforms. Three show alternate start sites at Met88, Met152, and a Met 44 aa upstream of the standard start site. Four isoforms also show deletions of aa 148-958, 51-59, 603-664 and 164-507, respectively. There is one 44 aa substitution for aa 603-999. Over aa 1-994, human ORP150 shares 92% aa identity with mouse ORP150.

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