

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human TRP14 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 544710
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TRP14 Ala2-Asp123 Accession # Q9BRA2
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

Thioredoxin-like 5, also known as a 14 kDa thioredoxin-related protein (TRP14) is a cytosolic redox regulatory molecule that belongs to the thioredoxin family of proteins. It contains a thioredoxin-like redox-sensitive active site motif (CPDC). In its reduced form, the active site cysteine residues reduce protein disulfide. The resulting active site disulfide is subsequently reduced in a reaction catalyzed by the NADPH-dependent thioredoxin reductase 1. Thioredoxin-like 5 is ubiquitously expressed and acts on protein targets different from that of Thioredoxin-1. The amino acid sequence of human Thioredoxin-like 5 is 80% identical to that of mouse and rat Thioredoxin-like 5.

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