

Human Thioredoxin-like 5/TRP14 Antibody

Monoclonal Mouse IgG₁ Clone # 544710 Catalog Number: MAB3504

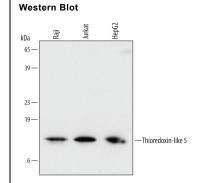
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects endogenous human TRP14 in Western blots.	
Source	Monoclonal Mouse IgG ₁ Clone # 544710	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human TRP14 Ala2-Asp123 Accession # Q9BRA2	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human Thioredoxinlike 5/TRP14 by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line, Jurkat acute T cell leukemia cell line, and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 1 μ g/mL of Human Thioredoxin-like 5/TRP14 Monoclonal Antibody (Catalog # MAB3504) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Thioredoxinlike 5/TRP14 at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	 12 months from date of receipt, -20 to -70 °C as supplied. 		
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 		
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 		

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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