

DESCRIPTION

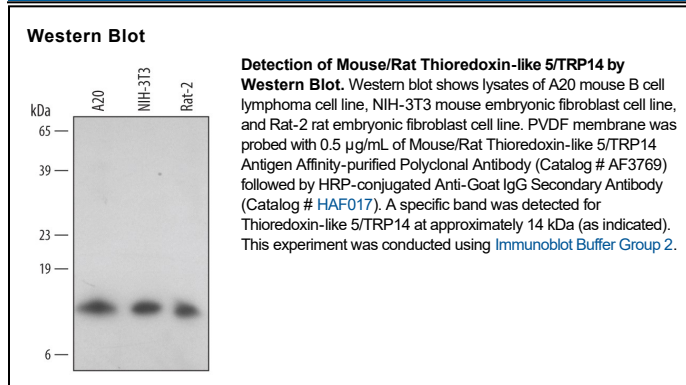
Species Reactivity	Mouse/Rat
Specificity	Detects endogenous mouse and rat Thioredoxin-like 5/TRP14 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Thioredoxin-like 5/TRP14 Met1-Asp123 Accession # Q9CQM5
Formulation	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	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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. <ul style="list-style-type: none"> ● 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 14 kDa cytosolic redox regulatory molecule that belongs to the thioredoxin family. It contains a thioredoxin-like redox-sensitive active site motif (Cys-Pro-Asp-Cys). In its reduced form, the active site cysteine residues reduce protein disulfide bonds. 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 mouse Thioredoxin-like 5 is 96% identical to that of rat Thioredoxin-like 5.