

DESCRIPTION

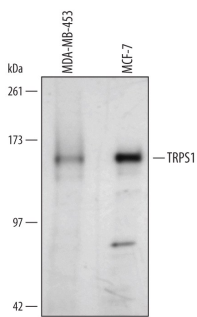
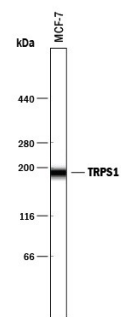

Species Reactivity	Human
Specificity	Detects human TRPS1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TRPS1 Met1-Phe222 Accession # Q9UHF7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
Simple Western	10 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human TRPS1 by Western Blot. Western blot shows lysates of MDA-MB-453 human breast cancer cell line and MCF-7 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human TRPS1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4838) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for TRPS1 at approximately 165 kDa (as indicated). This experiment was conducted under reducing conditions and using <i>Immunoblot Buffer Group 2</i>.</p>	<p>Simple Western</p>  <p>Detection of Human TRPS1 by Simple Western™. Simple Western lane view shows lysates of MCF-7 human breast cancer cell line, loaded at 0.2 mg/mL. A specific band was detected for TRPS1 at approximately 191 kDa (as indicated) using 10 µg/mL of Goat Anti-Human TRPS1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4838) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 66-440 kDa separation system.</p> 
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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

TRPS1 (also GC79) is a 160-175 kDa (predicted 140 kDa) member of the zinc finger family of transcription factors. It is ubiquitously expressed and serves to repress the expression of GATA-regulated genes. Human TRPS1 is 1281 amino acids (aa) in length. It contains nine divergent zinc-finger motifs (aa 222-1267), the seventh of which is associated with a GATA-binding sequence (aa 896-920) and is flanked by two NLSs (aa 886-891 and 946-952). Two SUMOylation sites exist (Lys1192 and Lys1201) and when utilized, they each add 40 kDa to the native MW. One alternative splice form shows premature truncation after Lys853. A second shows an alternate start site 13 aa upstream of the standard start site. Over aa 1-222, human TRPS1 shares 95% and 89% aa identity with canine and mouse TRPS1, respectively.