

## DESCRIPTION

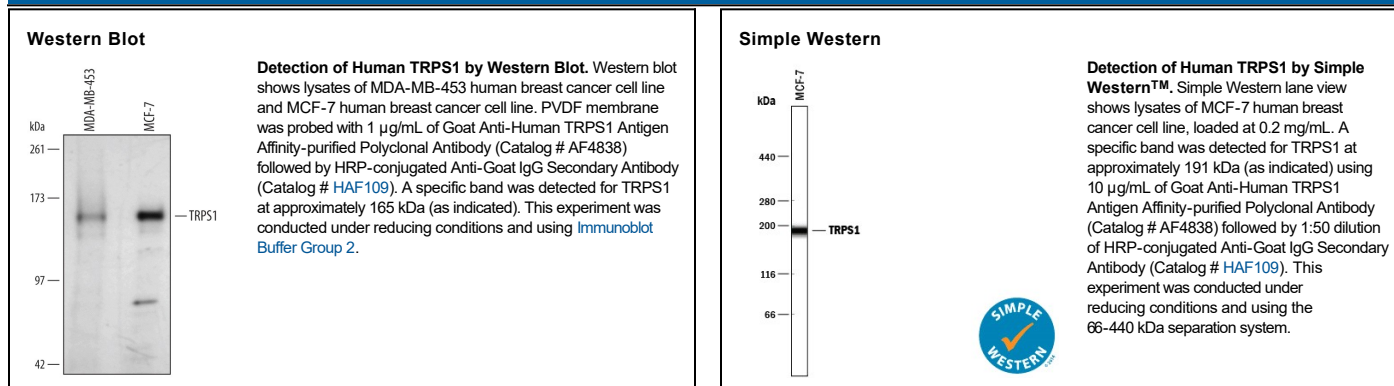
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Specificity</b>        | Detects human TRPS1 in Western blots.   |
| <b>Source</b>             | Polyclonal Goat IgG   |
| <b>Purification</b>       | Antigen Affinity-purified   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human TRPS1<br>Met1-Phe222<br>Accession # Q9UHF7  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*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.

|                       | <b>Recommended Concentration</b> | <b>Sample</b> |
|-----------------------|----------------------------------|---------------|
| <b>Western Blot</b>   | 1 µg/mL                          | See Below     |
| <b>Simple Western</b> | 10 µg/mL                         | See Below     |

## DATA



## PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Reconstitute at 0.2 mg/mL in sterile PBS.  |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

## 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.