



# Anti-Soluble TNF Receptor I antibody ab9979

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-Soluble TNF Receptor I antibody  |
| <b>Description</b>         | Rabbit polyclonal to Soluble TNF Receptor I   |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> ELISA, Neutralising, Sandwich ELISA, WB  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Recombinant full length protein corresponding to Human Soluble TNF Receptor I aa 1-250.<br>Database link: <a href="#">P19438</a>  |
|                            |  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>   |
| <b>Positive control</b>    | Recombinant human Soluble TNF Receptor I protein ( <a href="#">ab9980</a> ) can be used as a positive control in WB.  |
| <b>General notes</b>       | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p> |

### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Lyophilized:Reconstitute with 200µl of sterile water.  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. |
| <b>Storage buffer</b>       | No preservative, sterile filtered  |
| <b>Purity</b>               | Immunogen affinity purified  |
| <b>Clonality</b>            | Polyclonal   |
| <b>Isotype</b>              | IgG  |
| <b>Light chain type</b>     | unknown  |

### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab9979 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application    | Abreviews | Notes   |
|----------------|-----------|---|
| ELISA          |           | Use at an assay dependent concentration.  |
| Neutralising   |           | Use at an assay dependent concentration.<br>To yield one-half maximal inhibition [ND50] of the biological activity of hsTNF-R1 (0.3 Åµg/ml), a concentration of 0.9 - 1.1 Åµg/ml of this antibody is required.  |
| Sandwich ELISA |           | Use at an assay dependent concentration.<br>To detect hsTNF-receptor by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with <b>ab271211</b> as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hsTNF-receptor. |
| WB             |           | Use at an assay dependent concentration.  |

## Target

### Relevance

TNF RI (CD120a) is a 55 kDa transmembrane glycoprotein that is expressed by virtually all nucleated mammalian cells. Among the numerous cells known to express TNF RI are hepatocytes, monocytes and neutrophils, cardiac muscle cells, endothelial cells, and CD34+ hematopoietic progenitors. Both TNF alpha and TNF beta bind to TNF RI. Soluble TNF alpha binds with a Kda in the range of 20-60 pM, while TNF beta binds with a Kda equal to 650 pM. TNF RI relative to TNF RII seems to be the more physiologically relevant receptor, whereas TNF R2 appears to play a direct role in only a limited number of TNF responses. Soluble TNF RI, which blocks TNF alpha activity, has been identified in both urine and blood (1-3 ng/mL). Serum levels of sTNF receptors increase dramatically in certain pathological situations.

### Cellular localization

Cytoplasmic

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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