

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human sTNF RI/TNFRSF1A in direct ELISAs and Western blots. In direct ELISAs and Western blots (non-reducing conditions), less than 10% cross-reactivity with recombinant mouse TNF sRI is observed. Additionally, in direct ELISAs, this antibody does not cross-react with recombinant human (rh) sTNF RII, recombinant mouse (rm) sTNF RII, rhTNF- $\alpha$ , rmTNF- $\alpha$ , rhTNF- $\beta$ . This anti-human TNF RI antibody can interact with the cell surface 55 kDa human TNF RI and exhibits TNF agonist activities on the A549 human lung carcinoma cell line. This antibody also exhibits TNF agonist activities on the L-929 mouse fibroblast cell line, suggesting that it has cross-species activity with mouse cell surface TNF RI.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human sTNF RI/TNFRSF1A Accession # NP_001056
<b>Endotoxin Level</b>	<0.10 EU per 1 $\mu$ g of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ m filtered solution in PBS.

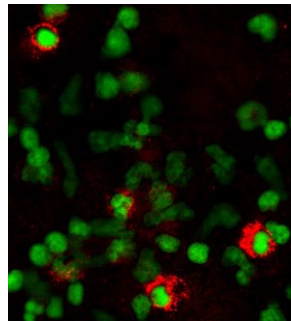
## APPLICATIONS

**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
<b>Western Blot</b>	0.1 $\mu$ g/mL	Recombinant Human TNF RI/TNFRSF1A (Catalog # 636-R1)
<b>Flow Cytometry</b>	2.5 $\mu$ g/10 <sup>6</sup> cells	Human blood-derived monocytes
<b>Immunocytochemistry</b>	5-15 $\mu$ g/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
<b>Agonist Activity</b>	Measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED <sub>50</sub> for this effect is typically 1-6 $\mu$ g/mL.	

## DATA

### Immunocytochemistry



**TNF RI/TNFRSF1A in Human Peripheral Blood Lymphocytes.** TNF RI/TNFRSF1A was detected in immersion fixed human peripheral blood lymphocytes using 5  $\mu$ g/mL Human TNF RI/TNFRSF1A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF225) for 3 hours at room temperature. Cells were stained (red) and counterstained (green). View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

## 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. *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

TNF RI occurs both in membrane bound and soluble forms and functions as a receptor for TNF- $\alpha$  and TNF- $\beta$ . In the superfamily nomenclature, it is designated TNFRSF1A.