

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse TNF RII/TNFRSF1B in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with recombinant human (rh) TNF RII, rhTNF RI, recombinant mouse (rm) TNF RI, and rm4-1BB is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse TNF RII/TNFRSF1B (R&D Systems, Catalog # 426-R2) Val23-Gly258 Accession # Q545P4
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

## 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>	0.1 µg/mL	Recombinant Mouse TNF RII/TNFRSF1B (Catalog # 426-R2)
<b>Mouse TNF RII/TNFRSF1B Sandwich Immunoassay</b>		<b>Reagent</b>
<b>ELISA Capture</b>	2-8 µg/mL	Mouse TNF RII/TNFRSF1B Antibody (Catalog # MAB426)
<b>ELISA Detection</b>	0.1-0.4 µg/mL	Mouse TNF RII/TNFRSF1B Biotinylated Antibody (Catalog # BAF426)
<b>Standard</b>		Recombinant Mouse TNF RII/TNFRSF1B (Catalog # 426-R2)

## 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.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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

Two types of soluble TNF receptors have been identified in human serum and urine which can neutralize the biological activities of TNF-α and TNF-β. These binding proteins represent truncated forms of the two types of high-affinity cell surface receptors for TNF (TNFR-p60 Type B and TNFR-p80 Type A). Soluble TNF RII corresponds to TNFR-p80 Type A. In the new TNF superfamily nomenclature, TNF RII is referred to as TNFRSF1B. These apparent soluble forms of the receptors appear to arise as a result of shedding of the extracellular domains of the membrane-bound receptors. Normal concentrations as high as 4 ng/mL are found in the serum of healthy individuals, and even higher levels may be found in some pathological conditions. Although the physiological role of these proteins is not known, it has been speculated that shedding of the soluble receptors in response to TNF release could serve as a mechanism to scavenge the TNF not immediately bound and thus localize the inflammatory response. It is also possible that the pool of TNF bound to soluble receptors could represent a reservoir for the controlled release of TNF.