

DESCRIPTION

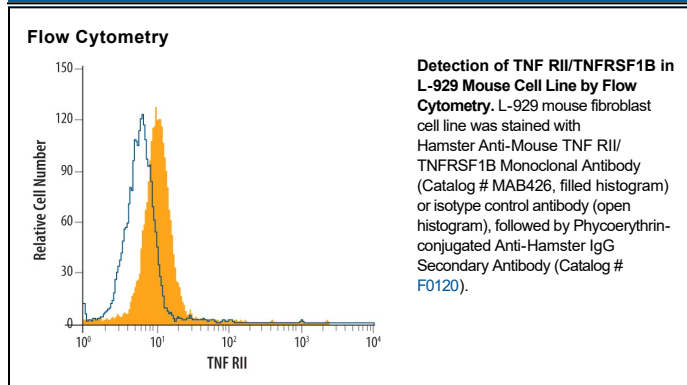
Species Reactivity	Mouse
Specificity	Detects mouse TNF RII/TNFRSF1B in ELISAs and Western blots. In ELISAs, no cross-reactivity with recombinant human (rh) TNF RII, recombinant mouse (rm) TNF RI, rhTNF RI, rm4-1BB, or rmOPG is observed. In Western blots, approximately 25% cross-reactivity with rhDR3 and rhTNF RII is observed and no cross-reactivity with rm4-1BB, rmCD27, rmCD30, rmCD40, rmFas, rmGITR, rhHVEM, rhNGF R, rmOPG, rmRANK, rmTNF RI, rmTROY, or rmEDAR is observed.
Source	Monoclonal Hamster IgG Clone # TR7554
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse TNF RII/TNFRSF1B Extracellular domain
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 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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse TNF RII/TNFRSF1B (Catalog # 426-R2)
Flow Cytometry	1 µg/10 ⁶ cells	See Below
Mouse TNF RII/TNFRSF1B Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Mouse TNF RII/TNFRSF1B Antibody (Catalog # MAB426)
ELISA Detection	0.1-0.4 µg/mL	Mouse TNF RII/TNFRSF1B Biotinylated Antibody (Catalog # BAF426)
Standard		Recombinant Mouse TNF RII/TNFRSF1B (Catalog # 426-R2)
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

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.