

Anti-TNF-R1

Catalog# SPC-170D

Size: 100µl

PO Box 55036, Cadboro Bay
3825 Cadboro Bay Road,
Victoria, BC, V8N 4G0, Canada

This product is for *in vitro* research use only and is not intended for use in humans or animals

StressMarq

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Product	Rabbit antibody; polyclonal
Clone	N/A
Immunogen	Peptide corresponding to AA 20-43 of the mouse TNF-R1 sequence, identical to rat and human over those residues
Host and Subclass	Rabbit polyclonal
Cited Applications	WB, IP
Specificity	Identifies a band ~55kD on WB
Species cross-reactivity	Human, mouse, rat, monkey, bovine, canine, rabbit
Format	PBS pH 7.4; 50% glycerol, 0.09% azide. Peptide affinity purified.
Working Dilution	1mg/ml; 1:1000 for WB
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

Selected References

1. Kontermann RE., *et al.* (2008) *J Immunother* 31(3):225-34.
2. Hehlhans T. and Pfeffer K.(2005) *Immunology* 115(1):1-20.
3. Al-Lamki S.,*et al.* (2005) *The FASEB Journal* 19:1638-1645.

Scientific Background

The Tumor Necrosis Factor Receptor (TNFR) also known as Cluster of differentiation (CD120) is a protein that belongs to the (TNF)/ (TNFR) superfamily. TNF interacts with two distinct receptors TNFR1 and TNFR2. These receptors share no homology on their cytoplasmic sequences(1,3).TNFR1 also known as p55/p60 is a high affinity receptor for TNF-α. The TNFR1 has an extracellular domain with variable numbers of cysteine-rich repeats. The functional properties of TNFR1 are targets in new therapies for osteoporosis, chronic inflammatory and autoimmune diseases (1, 2). The TNF-α/TNFR1 receptor complex is responsible for the recruitment and the subsequent activation of the caspase (aspartate-specific cysteine proteases) that regulate apoptosis.

Certificate of Analysis

1µg/mL of SPC-170 was sufficient for detection of TNFR1 in 20 µg of Hela lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Material Safety Data Sheet

TNFR1 (Polyclonal Antibody) SPC-170

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
None		

Physical Data

This product consists of whole rabbit serum shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences Inc.
Creation Date: 28/03/13

