

# Mouse CD120a (TNFR1) Antibody

DyLight® 488

Monoclonal Antibody

## Product Information

**Product No.:** T575  
**Clone:** 55R-170  
**RRID:** AB\_2832038  
**Isotype:** Armenian Hamster IgG  
**Storage:** Sterile 2-8°C

## Product Description

### Specificity:

Clone 55R-170 recognizes mouse CD120a.

### Antigen Distribution:

CD120a is constitutively expressed in most tissues.

### Background:

Tumor Necrosis Factor Receptor Type I (TNFRI) is a 55kD Type I transmembrane protein. TNFRI is expressed independently of TNFRII at low levels on a wide variety of cell types. TNFRI binds TNF- $\alpha$  and TNF- $\beta$  (also known as LT- $\alpha$ ). The subsequent signaling is known to be important for inducing cytolytic activity, antiviral activity, expression of manganous superoxide dismutase and intercellular adhesion molecule (ICAM), IL-6 mRNA accumulation and NF- $\kappa$ B induction. TNFRI carries an approximately 80 amino acid death domain near its carboxy terminus capable of transmitting an apoptotic signal through its interaction with TRADD (TNF Receptor I associated death domain protein). Binding of 55R-170 antibody to TNFRI has been shown to block *in vitro* and *in vivo* receptor signaling initiated by ligand binding.

### Known Reactivity Species:

Mouse

### Format:

DyLight® 488

### Immunogen:

Purified Recombinant Mouse TNFR1 (>98%)

## Formulation

This DyLight® 488 conjugate is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

## Storage and Stability

This DyLight® 488 conjugate is stable when stored at 2-8°C. Do not freeze.

## Country of Origin

USA

## References

1. Dana, R. *et al.* (2000) *Arch Ophthalmol.* 118: 1666
2. Donner, DB. *et al.* (2008) *J Immunol.* 181: 1288
3. Pasparakis, M. *et al.* (2008) *Nat Immunol.* 9: 1015