

**Alexa488-labeled Antibody to NK-1 Receptor, Affinity-Purified  
RABBIT POLYCLONAL**

**Catalog Number:** FL-N33AP  
**Quantity:** 50 micrograms  
**Format:** 50% PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), 50% glycerol; no preservative.  
**Host:** Rabbit  
**Immunogen:** Synthetic peptide corresponding to an amino acid sequence at the C-terminus of dog NK-1 receptor conjugated to bovine thyroglobulin with glutaraldehyde

**Background:**

The Neurokinin-1 (NK-1) receptor is a G-protein-coupled receptor characterized by seven transmembrane helices which preferentially binds the neuropeptide substance P. The NK-1 receptor (also known as the substance P receptor) plays a key role in pain and inflammation. Studies also implicate NK-1 receptors in depression and the growth of brain tumors.

**Specificity and Preparation:**

This antibody recognizes the NK-1 receptor in rat, dog, and human. This antibody was developed in rabbit using a synthetic peptide corresponding to an amino acid sequence at the C-terminus of dog NK-1 receptor conjugated to bovine thyroglobulin with glutaraldehyde. It has been conjugated to the fluorescent dye Alexa488. The peptide sequence has a high degree of homology to other species such as human, mouse, rat and guinea pig. The antibody is routinely tested by immunohistochemistry and flow cytometry.

**Usage and Storage:**

Applications include immunohistochemistry (ATS in-house, peroxidase substrate 1-3  $\mu\text{g/ml}$  and fluorescent 1-3  $\mu\text{g/ml}$ ), flow cytometry (ATS in-house, 3-10  $\mu\text{g/ml}$ ), immunoblotting (ATS in-house, western blot analysis 1-3  $\mu\text{g/ml}$ ), and ELISA (ATS in-house 1:1,000,000). Results may vary depending on protocol, tissue type etc; therefore the working dilutions should be determined by end user.

Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. The material can be handled safely using normal laboratory precautions. See Lot Number for lot-specific storage instructions.

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