

RAS(K117N)**RAS(K117N)****Cat. #:** 26468**Gene Symbol:** H-Ras; K-Ras; N-Ras**Description:** Anti-RAS(K117N) Mouse Monoclonal Antibody**Background:** The K117N mutation of KRas results in an amino acid substitution at position 146, from an alanine to a threonine. KRAS encodes a protein that is a member of the small GTPase superfamily. Ras K117N mutation results in decreased GTPase activity and constitutive signaling. It can be found in many tumors, such as lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma.**Immunogen:** A synthetic peptide from the internal region of Ras which includes the mutation of K117N, human origin.**Applications:** ELISA, WB, IHC**Recommended Dilutions:**

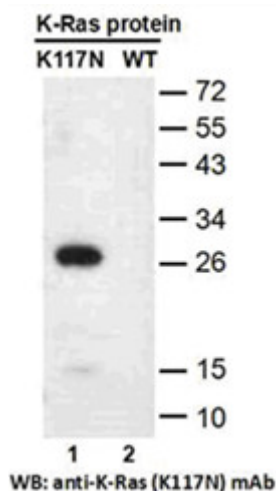
ELISA: 1:1000–1:5000

WB: 1:500–1:1000

IHC: 1:50–1:100

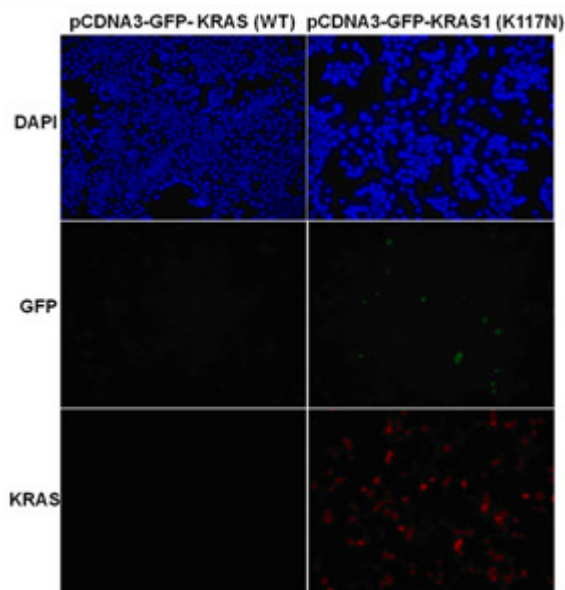
Concentration: 1 mg/ml**Host Species:** Mouse**Format:** Liquid**Clonality:** Monoclonal**Isotype:** IgG**Purity:** Purified from ascites**Preservative:** No**Constituents:** PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol**Species Reactivity:** Recognizes K117N mutant, but not wild type RAS of vertebrates.**Storage Conditions:** Store at $-20^{\circ}C$. Avoid repeated freezing and thawing

Western blot:



Western blot analysis of recombinant RAS(K117N) and wild type proteins. Purified His-tagged RAS(K117N) protein (lane 1) and corresponding wild type protein (lane 2) were blotted with Anti-RAS(K117N) monoclonal antibody (Cat. #26468).

Immunofluorescence:



Immunofluorescence of cells expressing KRas proteins with anti-KRAS(K117N) antibody. HEK293T cells were transfected with pCDNA3-GFP-KRas (WT) plasmid (left column) or pCDNA3-GFP-KRAS(K117N) plasmid (right column), then fixed and stained with anti-KRAS(K117N) monoclonal antibody (Cat. #26468).