

RAS(G12D)**Ras(G12D)****Cat. #:** 26036**Gene Symbol:** RAS(G12D)**Description:** Anti-Ras(G12D) Mouse Monoclonal Antibody**Background:** Ras (G12D) is one type of Ras missense mutations at the codon 12. Ras protein is a membrane-associated GTPase that regulates cell proliferation, differentiation, and survival. Ras G12D mutation results in decreased GTPase activity and constitutive signaling. This mutation is found in many types of human cancers.**Immunogen:** A synthetic peptide from the internal region of Ras which includes the mutation of G12D, human origin**Applications:** ELISA, WB, IF, IHC**Recommended Dilutions:**

ELISA: 1:100–1:3000

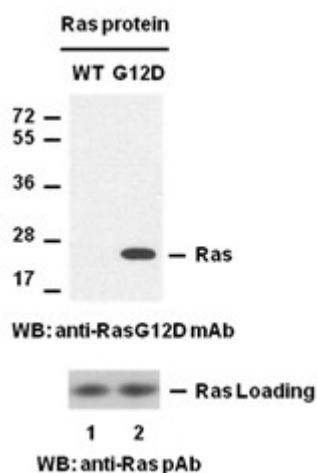
WB: 1:100–1:1000

IF: 1:50–1:100

IHC: 1:50–1:100

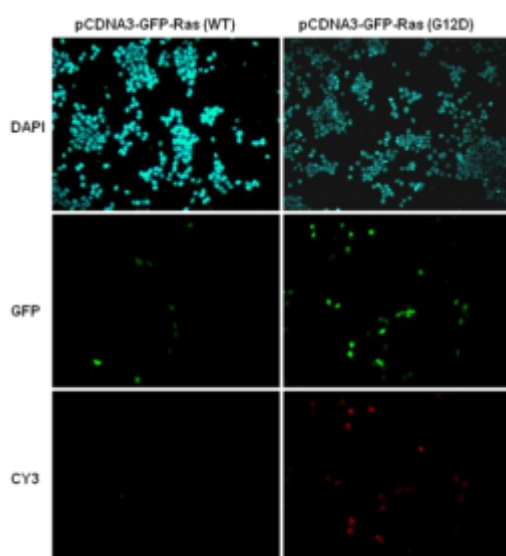
Concentration: 1 mg/ml**Host Species:** Mouse**Format:** Liquid**Clonality:** Monoclonal**Isotype:** IgG1, IgG2a, IgG2b**Purity:** Purified from ascites**Preservative:** No**Constituents:** PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol**Species Reactivity:** Ras(G12D) antibody recognizes Ras(G12D) proteins of vertebrates**Storage Conditions:** Store at $-20^{\circ}C$. Avoid repeated freezing and thawing

Western blot:



Western blot analysis of recombinant Ras WT and G12D proteins. Equal amounts of purified Ras WT (lane 1, Cat # 10172) and G12D (lane 2, Cat # 10154) proteins were loaded and blotted with anti-Ras G12D mouse monoclonal antibody (Cat # 26036) (Top panel). Input control (bottom panel) was blotted with rabbit polyclonal anti-Ras antibody (Cat # 21021).

Immunofluorescence:



Immunofluorescence of cells expressing RAS proteins with anti-RAS (G12D) antibody.

HEK293T cells were transfected with pCDNA3-GFP-Ras(WT) plasmid (left column) or pCDNA3-GFP Ras(G12D) plasmid (right column), then fixed and stained with anti-Ras(G12D) monoclonal antibody (Cat. # 26036).