

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Ras (H-Ras, N-Ras, and K-Ras) in Western blots. Does not detect more distantly related Ras superfamily members, including R-Ras, Ral, Rap, and Rheb.
Source	Monoclonal Rat IgG _{2B} Clone # 342404
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human K-Ras2B Met1-Met188 (Gln61His) Accession # P01116-2
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The Ras proteins (H-Ras, N-Ras, and two splice variants of K-Ras) define a closely related family of 21 kDa GTPases that cycle between GTP-bound active and GDP-bound inactive states at the cytoplasmic face of the plasma membrane. Receptor tyrosine kinases and G-protein coupled receptors activate Ras, and effectors include Raf and PI 3-kinase. Activating mutations of Ras, which impair GTPase activity and stabilize the active state, are found in nearly one-third of all human cancers.

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