

## DESCRIPTION

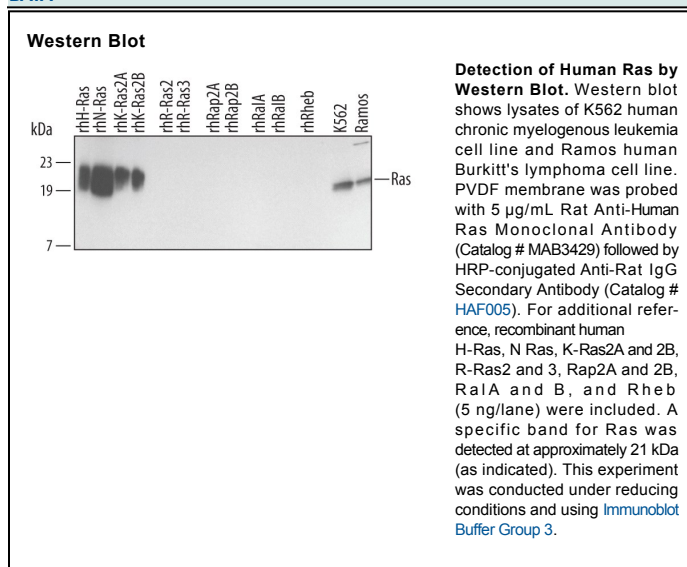
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Ras (H-Ras, N-Ras, and K-Ras) in Western blots. Does not detect more distantly related Ras superfamily members, including R-Ras, Ral, Rap, and Rheb.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 342404
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human K-Ras2B Met1-Met188 (Gln61His) Accession # P01116-2
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	5 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.