

DESCRIPTION

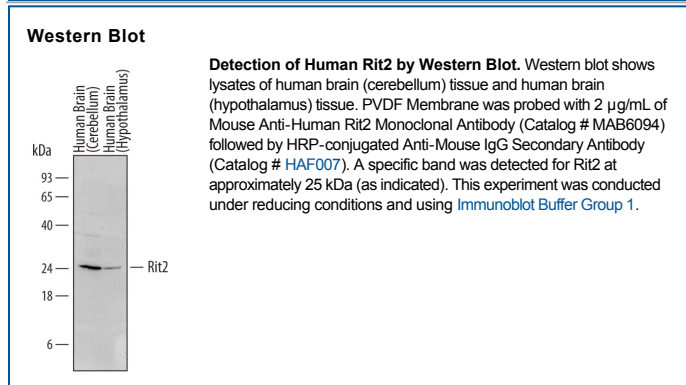
Species Reactivity	Human
Specificity	Detects human Rit2 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 456313
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Rit2 aa 1-217 Accession # Q99578
Formulation	Lyophilized 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
Western Blot	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	Immersion-fixed paraffin-embedded sections of human brain (caudate putamen)

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

GTP-binding protein Rit2 (Rit2; also Rin, Ras-like protein expressed in neurons, Ras-like without CAAX) is a 25 kDa member of the small GTPase superfamily and Ras family. Human Rit2 is 217 amino acids (aa) in length. Like all small G-proteins, Rit2 contains five highly conserved domains (G1-G5) and acts as a molecular switch by alternating an active GTP-bound form and an inactive GDP-bound form. There are two isoforms for Rit2. Isoform 1 is the long form. Isoform 2 has an 11 aa substitution for residues 143-153 found in isoform 1 and a deletion of aa 154-217. Rit2 is expressed exclusively in neurons. In addition, Rit2 binds calmodulin through a C-terminal binding motif.