

Anti-RND1 Picoband Antibody

Catalog # ABO13051

Product Information

Application	WB
Primary Accession	Q92730
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Rho-related GTP-binding protein Rho6(RND1) detection. Tested with WB in Human;Mouse.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	27289
Other Names	Rho-related GTP-binding protein Rho6, Rho family GTPase 1, Rnd1, RND1, RHO6
Calculated MW	26056
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse, Human
Subcellular Localization	Cell membrane ; Lipid-anchor ; Cytoplasmic side . Cytoplasm, cytoskeleton .
Tissue Specificity	Mostly expressed in brain and liver.
Source	Eukaryota
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived human RND1 recombinant protein (Position: K105-C229). Human RND1 shares 95.2% amino acid (aa) sequence identity with mouse RND1.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	RND1
Synonyms	RHO6
Function	Lacks intrinsic GTPase activity. Has a low affinity for GDP, and constitutively binds GTP. Controls rearrangements of the actin cytoskeleton. Induces the Rac-dependent neuritic process formation in part by disruption of the cortical actin filaments. Causes the formation of many neuritic processes from the cell body with disruption of the cortical actin filaments.
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, cytoskeleton
Tissue Location	Mostly expressed in brain and liver.

Background

Rnd1 is a small (~21 kDa) signaling G protein (to be specific, a GTPase), and is a member of the Rndsubgroup of the Rho family of GTPases. Members of this family regulate the organization of the actin cytoskeleton in response to extracellular growth factors. A similar protein in rat interacts with a microtubule regulator to control axon extension. The RND1 gene is mapped to chromosome 12q12-q13.

Images

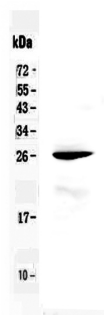


Figure 1. Western blot analysis of RND1 using anti-RND1 antibody (ABO13051).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.