

Datasheet for ABIN967835
anti-rala antibody (AA 35-206)[2 Images](#)[4 Publications](#)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	rala
Binding Specificity:	AA 35-206
Reactivity:	Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Human Ral A aa. 35-206
Clone:	8-Ral A
Isotype:	IgG2a kappa
Cross-Reactivity:	Rat (Rattus), Chicken, Dog (Canine), Mouse (Murine)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.4. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	rala
Alternative Name:	Ral A (rala Products)
Background:	Ral is a low molecular weight GTP-binding protein belonging to the Ras superfamily of GTP-binding proteins and shows 50% amino acid identity to Ras. Ral cDNA clones have been isolated from human placenta, human pheochromocytoma, simian β -lymphocyte, and marine ray electric lobe cDNA libraries. In humans, cDNA sequences for Ral A and RalB have been determined. The predicted amino acid sequences show 85% identity. Both proteins consist of 206 amino acids with a predicted molecular weight of 24kDa. However, Ral A isolated from human platelets shows an apparent molecular weight of 26-28kDa. Ral A mRNA levels in adult mouse tissues appear to be highest in testes, ovary, and brain, with lower levels found in the liver, spleen, kidney, thymus, heart, and salivary glands. Similar results have been observed in rat tissues. This antibody is routinely tested by western blot analysis.
Molecular Weight:	24-28 kDa
Pathways:	Neurotrophin Signaling Pathway , SARS-CoV-2 Protein Interactome

Application Details

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

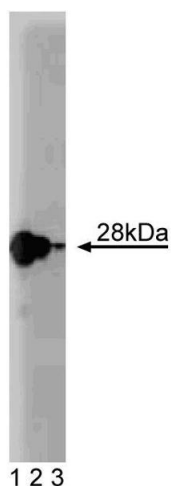
Handling

Format:	Liquid
Concentration:	250 μ g/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

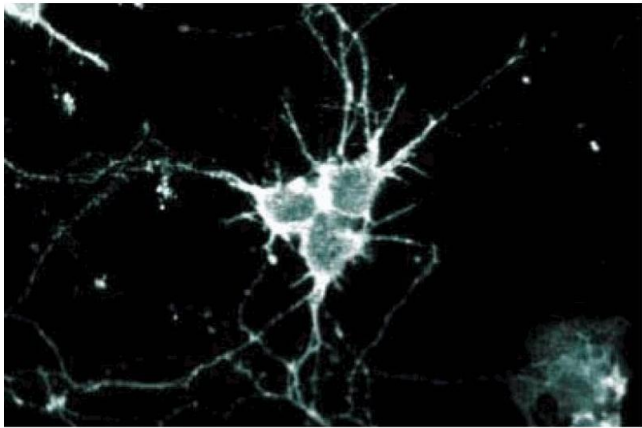
- Product cited in: Xu, Frankel, Jackson, Rotunda, Boshans, DSouza-Schorey, Foster: "Elevated phospholipase D activity in H-Ras- but not K-Ras-transformed cells by the synergistic action of RalA and ARF6." in: **Molecular and cellular biology**, Vol. 23, Issue 2, pp. 645-54, (2003) ([PubMed](#)).
- Kinashi, Katagiri, Watanabe, Vanhaesebroeck, Downward, Takatsu: "Distinct mechanisms of alpha 5beta 1 integrin activation by Ha-Ras and R-Ras." in: **The Journal of biological chemistry**, Vol. 275, Issue 29, pp. 22590-6, (2000) ([PubMed](#)).
- Goi, Rusanescu, Urano, Feig: "Ral-specific guanine nucleotide exchange factor activity opposes other Ras effectors in PC12 cells by inhibiting neurite outgrowth." in: **Molecular and cellular biology**, Vol. 19, Issue 3, pp. 1731-41, (1999) ([PubMed](#)).
- Olofsson, Chardin, Touchot, Zahraoui, Tavitian: "Expression of the ras-related ralA, rho12 and rab genes in adult mouse tissues." in: **Oncogene**, Vol. 3, Issue 2, pp. 231-4, (1988) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of Ral A on a rat cerebrum lysate. Lane 1: 1:5000, lane 2: 1:10,000, lane 3: 1:20,000 dilution of the anti-Ral A antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of rat neurons at 5 $\mu\text{g/ml}$ of the anti-Ral A antibody.