

Anti-RASAL1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Dog,Cow,Sheep)
Molecular Weight:	Theoretical: 90 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	<p>1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-RASAL1 Polyclonal Antibody, Unconjugated (TMAB-12105) 1: 200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1: 200 dilution for 40 minutes at 37°C. DAPI (5 µg/ml, blue) was used to stain the cell nuclei</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (RASAL1) Polyclonal Antibody, Unconjugated (TMAB-12105) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p>
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:400-800; IHC-Fr: 1:400-800; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human RASAL1
Antigen Species:	Human
Gene ID:	8437
Uniprot ID:	O95294

Research Background

Ras GTPase activating-like protein (RASAL) or RASAL1 is a member of the GAP1 family, and a Ca²⁺ sensor responding in-phase to repetitive Ca²⁺ signals by associating with the plasma membrane and deactivating Ras. It contains a conserved domain structure comprising N-terminal tandem C2 domains, a highly conserved central RasGAP domain, and a C-terminal pleckstrin-homology domain that is associated with a Bruton's tyrosine kinase motif. RASAL, like Ca²⁺ -promoted Ras inactivator (CAPRI, or RASAL4), is a cytosolic protein that undergoes a rapid translocation to the plasma membrane in response to receptor-mediated elevation in the concentration of intracellular free Ca²⁺, a translocation that activates its ability to function as a RasGAP. However, unlike RASAL4, RASAL undergoes an

oscillatory translocation to the plasma membrane that occurs in synchrony with repetitive Ca²⁺ spikes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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