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Datasheet for ABIN500573

anti-RAPTOR antibody (N-Term)

2 Images

Overview

Quantity:	0.1 mg
Target:	RAPTOR
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAPTOR antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Raptor polyclonal antibody was raised against a 13 amino acid peptide from near the amino-terminus of human Raptor.
Isotype:	IgG
Specificity:	This antibody detects RAPTOR at N-term. Raptor has multiple isoforms that may also be recognized by the antibody.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse
Purification:	Peptide affinity chromatography

Target Details

Target:	RAPTOR
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Target Details

Alternative Name: [RAPTOR \(RAPTOR Products\)](#)

Background: The mammalian Target of Rapamycin (TOR, also known as mTOR) is an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors (reviewed in 1). Rapamycin inhibits TOR activity resulting in reduced cell growth and reduced rates of cell cycle and cell proliferation (reviewed in 2). Raptor (regulatory associated protein of TOR) is a TOR-binding protein essential for TOR signaling in vivo. It acts as a TOR scaffold protein whose binding by TOR substrates is necessary for effective TOR-catalyzed phosphorylation (3). These substrates include the ribosomal protein S6 kinase (RP S6K) and the eukaryotic initiation factor 4E binding protein 4EBP1, proteins necessary for cell growth and proliferation and responsive to nutrient and mitogen levels (4). Raptor binds these proteins through a common 5 amino acid TOR-signaling (TOS) motif, mutation of this motif prevents the TOR-dependent phosphorylation of these proteins (5). Synonyms: KIAA1303, P150 target of rapamycin TOR-scaffold protein, RPTOR, Regulatory-associated protein of mTOR

Gene ID: 57521

UniProt: [Q8N122](#)

Pathways: [Warburg Effect](#)

Application Details

Application Notes: ELISA. Western blot: 2 µg/mL. Immunocytochemistry.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % 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.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Handling

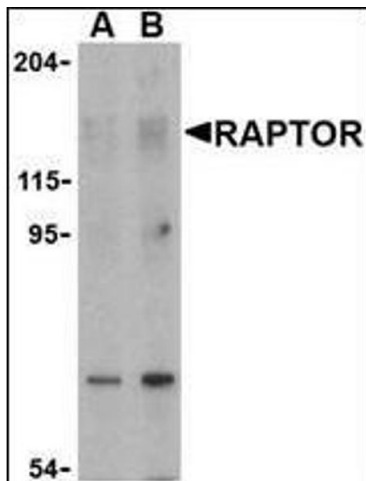
Storage Comment: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Images



Immunofluorescence

Image 1. Immunocytochemistry of RAPTOR in L1210 cells with this product at 10 µg/ml.



Western Blotting

Image 2. Western blot analysis of Raptor in L1210 cell lysate with this product at (A) 2 and (B) 4 µg/ml.