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DRG1 Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI16149

Product Information

Application	WB
Primary Accession	Q9Y295
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40542

Additional Information

Gene ID	4733
Alias Symbol	DRG1, NEDD3,
Other Names	Developmentally-regulated GTP-binding protein 1, DRG-1, Neural precursor cell expressed developmentally down-regulated protein 3, NEDD-3, DRG1, NEDD3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 &mu, l of distilled water. Final Anti-DRG1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	DRG1 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DRG1 {ECO:0000303|PubMed:29915238, ECO:0000312|HGNC:HGNC:3029}
Function	Catalyzes the conversion of GTP to GDP through hydrolysis of the gamma-phosphate bond in GTP (PubMed:23711155, PubMed:29915238, PubMed:37179472). Appears to have an intrinsic GTPase activity that is stimulated by ZC3H15/DFRP1 binding likely by increasing the affinity for the potassium ions (PubMed:23711155). When hydroxylated at C-3 of 'Lys-22' by JMJD7, may bind to RNA and play a role in translation (PubMed:19819225, PubMed:29915238). Binds to microtubules and promotes microtubule polymerization and stability that are required for mitotic spindle assembly during prophase to anaphase transition. GTPase activity is not necessary for these microtubule-related functions (PubMed:28855639). Nucleus. Cytoplasm. Note=The DRG1-ZC3H15/DFRP1 complex associates with

Cellular Location	polysomes
Tissue Location	High levels in skeletal muscle, heart, and kidney. Intermediate levels in liver, placenta and brain. Low levels in colon, thymus, spleen, small intestine, lung and leukocytes

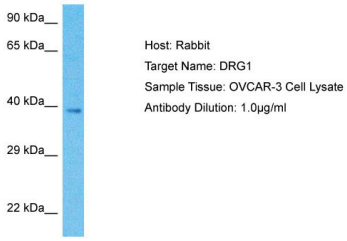
Background

Critical regulator of cell growth under specific conditions. Implicated in differentiation and cell cycle arrest.

References

Zhao X.-F.,et al.Biochim. Biophys. Acta 1448:109-114(1998).
Li B.,et al.Biochim. Biophys. Acta 1491:196-204(2000).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



Host: Rabbit
Target Name: DRG1
Sample Tissue: OVCAR-3 Whole Cell lysates
Antibody Dilution: 1.0µg/ml

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