

DRG1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12620b**Specification**

DRG1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [O9Y295](#)**DRG1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 4733**Other Names**

Developmentally-regulated GTP-binding protein 1, DRG-1, Neural precursor cell expressed developmentally down-regulated protein 3, NEDD-3, DRG1, NEDD3

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DRG1 Antibody (C-term) Blocking peptide - 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).

Cellular Location

Nucleus. Cytoplasm. Note=The DRG1-ZC3H15/DFRP1 complex associates with 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

DRG1 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

DRG1 Antibody (C-term) Blocking peptide - Images**DRG1 Antibody (C-term) Blocking peptide - Background**

DRG1 may play a role in cell proliferation, differentiation and death.

DRG1 Antibody (C-term) Blocking peptide - References

de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009)Bandyopadhyay, S., et al. Cancer Res. 66(24):11983-11990(2006)Bandyopadhyay, S., et al. Oncogene 23(33):5675-5681(2004)Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004) :Bandyopadhyay, S., et al. Cancer Res. 63(8):1731-1736(2003)