

**DRG1 Antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI16149****Specification**

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**DRG1 Antibody - middle region - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">O9Y295</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 40kDa KDa              |

**DRG1 Antibody - middle region - 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 µl 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.

**DRG1 Antibody - middle region - 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:<a href="http://www.uniprot.org/citations/29915238" target="\_blank">29915238</a>, PubMed:<a href="http://www.uniprot.org/citations/23711155" target="\_blank">23711155</a>). Appears to have an intrinsic GTPase activity that is stimulated by ZC3H15/DFRP1 binding likely by increasing the affinity for the potassium ions (PubMed:<a href="http://www.uniprot.org/citations/23711155" target="\_blank">23711155</a>). When hydroxylated at C-3 of 'Lys-22' by JMJD7, may bind to RNA and play a role in translation (PubMed:<a href="http://www.uniprot.org/citations/19819225" target="\_blank">19819225</a>, PubMed:<a href="http://www.uniprot.org/citations/29915238" target="\_blank">29915238</a>). 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:<a href="http://www.uniprot.org/citations/28855639" target="\_blank">28855639</a>).

#### Cellular Location

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

#### Tissue Location

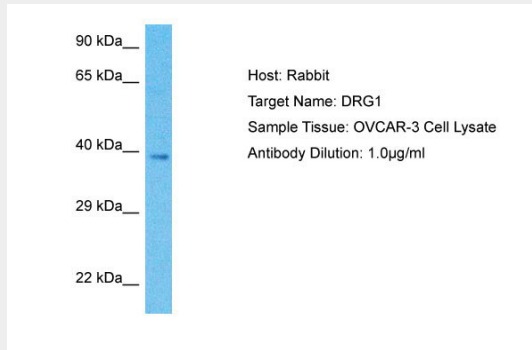
High levels in skeletal muscle, heart, and kidney. Intermediate levels in liver, placenta and brain. Low levels in colon, thymus, spleen, small intestine, lung and leukocytes

### DRG1 Antibody - middle region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### DRG1 Antibody - middle region - Images



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

### DRG1 Antibody - middle region - Background

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

### DRG1 Antibody - middle region - 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).  
Kalnina N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).

