

# Rabbit anti-Human, Mouse DNM1L Polyclonal Antibody | anti-DNM1L antibody

DNM1L Polyclonal Antibody

|                              |                       |                                   |                                                                               |
|------------------------------|-----------------------|-----------------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA37111</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry, Western Blot</b> |
|------------------------------|-----------------------|-----------------------------------|-------------------------------------------------------------------------------|

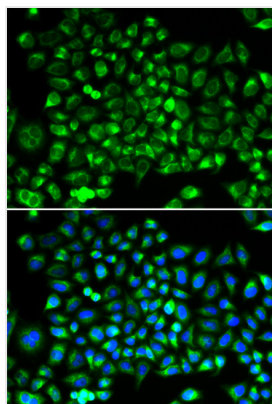
## PRODUCT SYNONYMS

DNM1L; Polyclonal Antibody; DNM1L Polyclonal Antibody; DLP1; DRP1; DVLP; DYMPLE; DYNIV-11; FLJ41912; HDYNIV; VPS1; anti-DNM1L antibody

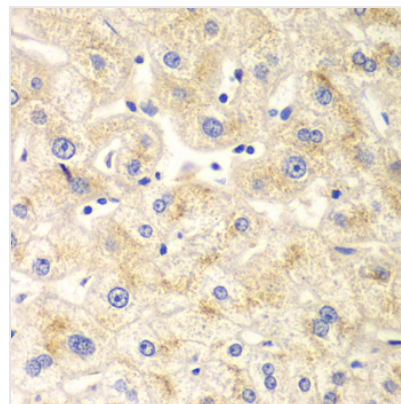
## PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                |
| Reactivity                                      | Human, Mouse                                                                                                                                          |
| Clonality                                       | Polyclonal                                                                                                                                            |
| Isotype                                         | IgG                                                                                                                                                   |
| Purity/Purification                             | Affinity Purification                                                                                                                                 |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                |
| Sequence Length                                 | 736                                                                                                                                                   |
| Applicable Applications for anti-DNM1L antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                |
| Species                                         | Human                                                                                                                                                 |
| Immunogen                                       | Recombinant Protein                                                                                                                                   |
| Immunogen                                       | Recombinant protein of human DNM1L                                                                                                                    |
| Calculated Molecular Weight                     | 79kDa                                                                                                                                                 |
| Preparation and Storage                         | Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.<br>Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

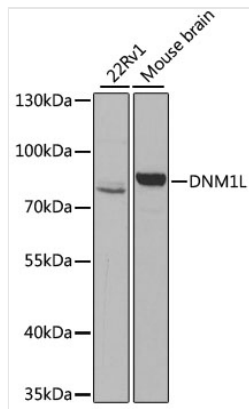
## IMAGES


**IF (Immunofluorescence)**

Immunofluorescence analysis of HeLa cells using DNM1L antibody. Blue: DAPI for nuclear staining.


**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded human liver injury using DNM1L antibody at dilution of 1:100 (40x lens).



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using DNM1L antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit.

### ADDITIONAL INFORMATION

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|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-DNM1L antibody</b> | Dynamin-related protein 1 (DNM1L) is a member of the dynamin superfamily of GTPases. Members of this family have diverse cellular functions including vesicle scission, organelle fission, viral resistance, and intracellular trafficking (reviewed in 1). DNM1L affects mitochondrial morphology and is important in mitochondrial and peroxisomal fission in mammalian cells (2-5). The yeast ortholog of DNM1L clusters into a spiral-shaped structure on the mitochondrial membrane at the site of fission (reviewed in 6), and this structure is likely conserved in mammalian cells (3). The division of the mitochondria, which is required for apoptosis, as well as normal cell growth and development is controlled, in part, by the phosphorylation of DNM1L at Ser616 by Cdk1/cyclin B and at Ser637 by protein kinase A (PKA) (reviewed in 6). When phosphorylated at Ser616, DNM1L stimulates mitochondrial fission during mitosis. Conversely, fission is inhibited when DNM1L is phosphorylated at Ser637 (reviewed in 6). Dephosphorylation at Ser637 by calcineurin reverses this inhibition (7). In addition to phosphorylation, sumoylation of DNM1L is also an enhancer of mitochondrial fission (8). Balancing fission and fusion events is essential for proper mitochondrial function. Research studies have demonstrated mitochondrial defects in a variety of neurodegenerative diseases including Alzheimer's disease, Parkinson's disease, and Huntington's disease (reviewed in 6). |
| <b>Product Categories/Family for anti-DNM1L antibody</b>   | <a href="#">Polyclonal</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">125987821</a>                                                                                                                                                                                                                                                                                 |
| <b>NCBI GeneID</b>                      | <a href="#">10059</a>                                                                                                                                                                                                                                                                                     |
| <b>UniProt Accession #</b>              | <a href="#">O00429</a> ; <a href="#">O14541</a> ; <a href="#">O60709</a> ; <a href="#">Q59GN9</a> ; <a href="#">Q7L6B3</a> ; <a href="#">Q8TBT7</a> ; <a href="#">Q9BWM1</a> ; <a href="#">Q9Y5J2</a> ; <a href="#">A8K4X9</a> ; <a href="#">B4DGC9</a> ; <a href="#">B4DSU8</a> ; <a href="#">J3KPI2</a> |
| <b>Molecular Weight</b>                 | 736                                                                                                                                                                                                                                                                                                       |
| <b>NCBI Official Full Name</b>          | Dynamin-1-like protein                                                                                                                                                                                                                                                                                    |
| <b>NCBI Official Synonym Full Names</b> | dynamin 1-like                                                                                                                                                                                                                                                                                            |
| <b>NCBI Official Symbol</b>             | DNM1L                                                                                                                                                                                                                                                                                                     |
| <b>NCBI Official Synonym Symbols</b>    | DLP1; DRP1; DVLP; EMPF; DYMPLE; HDYNIV                                                                                                                                                                                                                                                                    |
| <b>NCBI Protein Information</b>         | dynamin-1-like protein; dynamin-like protein 4; dynamin-like protein IV; Dnm1p/Vps1p-like protein; dynamin-related protein 1; dynamin family member proline-rich carboxyl-terminal domain less                                                                                                            |
| <b>UniProt Protein Name</b>             | Dynamin-1-like protein                                                                                                                                                                                                                                                                                    |
| <b>UniProt Gene Name</b>                | <b>DNM1L</b>                                                                                                                                                                                                                                                                                              |
| <b>UniProt Synonym Gene Names</b>       | DLP1; DRP1; DVLP; Dymple; HdynIV                                                                                                                                                                                                                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dnm1l-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/37111>