



# RD3 rabbit pAb

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-12296                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reactivity</b>                  | Human; Mouse                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>                | WB;ELISA;IHC                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>                   | RD3 C1orf36                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>                   | Synthesized peptide derived from human RD3 AA range: 126-176                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>                 | This antibody detects endogenous levels of RD3 at Human/Mouse                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.                                                                                                                                                                                                                                                                                                                               |
| <b>Dilution</b>                    | WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>                    | RD3;RD3 C1orf36                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Observed Band</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Calculated Molecular Weight</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cell Pathway</b>                | Cell projection, cilium, photoreceptor outer segment . Photoreceptor inner segment . Endosome . Nucleus . Cytoplasm . Cytoplasm, perinuclear region . Colocalizes with GUCY2E and GUCY2F in rods and cones photoreceptors. Colocalizes with GUK1 in photoreceptor inner segments and to a lesser extent in the outer plexiform layer (By similarity). Strong dot-like perinuclear staining in the epithelial cells (PubMed:29030614). . |
| <b>Tissue Specificity</b>          | Expressed in retina (PubMed:12914764). Widely expressed (at protein level) (PubMed:29030614). In the retina the strongest immunoreactivity is detected in the inner half of the cytoplasmic portion of the photoreceptor layer, where rods and cones are found, and the external half of the outer plexiform layer (at protein level) (PubMed:29030614).                                                                                |
| <b>Function</b>                    | disease:Defects in RD3 are the cause of Leber congenital amaurosis type 12 (LCA12) [MIM:610612]. LCA designates a clinically and genetically heterogeneous group of childhood retinal degenerations, generally inherited in an autosomal recessive manner. Affected infants have little or no retinal                                                                                                                                   |



photoreceptor function as tested by electroretinography. LCA represents the most common genetic cause of congenital visual impairment in infants and children.,tissue specificity:Preferentially expressed in retina.,

#### Background

This gene encodes a retinal protein that is associated with promyelocytic leukemia-gene product (PML) bodies in the nucleus. Mutations in this gene cause Leber congenital amaurosis type 12, a disease that results in retinal degeneration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009],

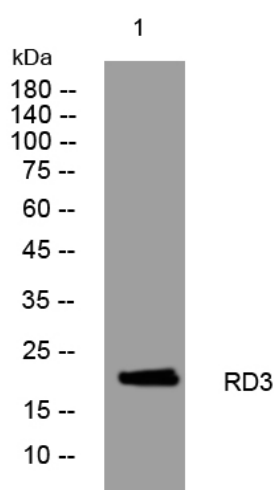
#### matters needing attention

Avoid repeated freezing and thawing!

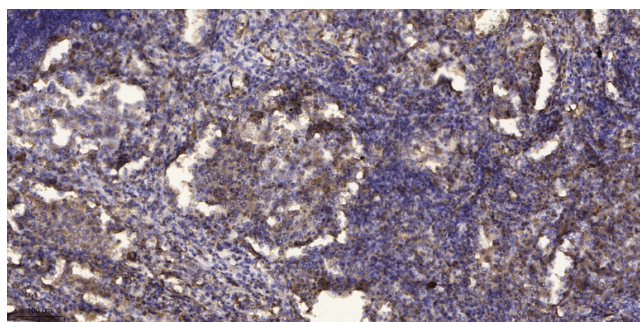
#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western blot analysis of lysates from AD293 cells, primary antibody was diluted at 1:1000, 4° over night



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).