



# CD63 (ABT135R) Rabbit mAb (Ready to Use)

|                                    |  |
|------------------------------------|--|
| <b>Catalog No</b>                  | YP-rAb-18191   |
| <b>Isotype</b>                     | IgG  |
| <b>Reactivity</b>                  | Human  |
| <b>Applications</b>                | IHC  |
| <b>Gene Name</b>                   | CD63 MLA1 TSPAN30  |
| <b>Protein Name</b>                | CD63 antigen (Granulophysin) (Lysosomal-associated membrane protein 3) (LAMP-3) (Lysosome integral membrane protein 1) (Limp1) (Melanoma-associated antigen ME491) (OMA81H) (Ocular melanoma-associated antigen) (Tetraspanin-30) (Tspan-30) (CD antigen CD63)   |
| <b>Purification Process</b>        | Protein A  |
| <b>Specificity</b>                 | This antibody detects endogenous levels of CD63  |
| <b>Formulation</b>                 | The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300  |
| <b>Source</b>                      | Monoclonal, Rabbit,IgG   |
| <b>Dilution</b>                    | Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0   |
| <b>Concentration</b>               | 0.5 mg/ml  |
| <b>Purity</b>                      | ≥90%   |
| <b>Storage Stability</b>           | 2° C to 8° C/1 year,Ship by ice bag  |
| <b>Synonyms</b>                    | CD63 ; MLA1 ; TSPAN30 ; CD63 antigen ; Granulophysin ; Lysosomal-associated membrane protein 3 ; LAMP-3 ; Melanoma-associated antigen ME491 ; OMA81H ; Ocular melanoma-associated antigen ; Tetraspanin-30 ; Tspan-30 ; CD63 ; CD63 nanobody ;   |
| <b>Observed Band</b>               |  |
| <b>Calculated Molecular Weight</b> |  |
| <b>Cell Pathway</b>                | Cell membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Late endosome membrane ; Multi-pass membrane protein . Endosome, multivesicular body . Melanosome . Secreted, extracellular exosome . Cell surface . Also found in Weibel-Palade bodies of endothelial cells (PubMed:10793155). Located in platelet dense granules (PubMed:7682577). Detected in a subset of pre-melanosomes. Detected on intraluminal vesicles (ILVs) within multivesicular bodies (PubMed:21962903). . |
| <b>Tissue Specificity</b>          | Detected in platelets (at protein level). Dysplastic nevi, radial growth phase primary melanomas, hematopoietic cells, tissue macrophages.   |





## Function

This antigen is associated with early stages of melanoma tumor progression. May play a role in growth regulation. **miscellaneous:** Lack of expression of CD63 in platelets has been observed in a patient with Hermansky-Pudlak syndrome (HPS). Hermansky-Pudlak syndrome (HPS) is a genetically heterogeneous, rare, autosomal recessive disorder characterized by oculocutaneous albinism, bleeding due to platelet storage pool deficiency, and lysosomal storage defects. This syndrome results from defects of diverse cytoplasmic organelles including melanosomes, platelet dense granules and lysosomes. Ceroid storage in the lungs is associated with pulmonary fibrosis, a common cause of premature death in individuals with HPS. **similarity:** Belongs to the tetraspanin (TM4SF) family. **subcellular location:** Also found in Weibel-Palade bodies of endothelial cells. Located in platelet dense granules. **tissue specificity:** Dysplastic nevi, radial growth phase primary melanomas, hematopoietic cells, tissue macrophages.

## Background

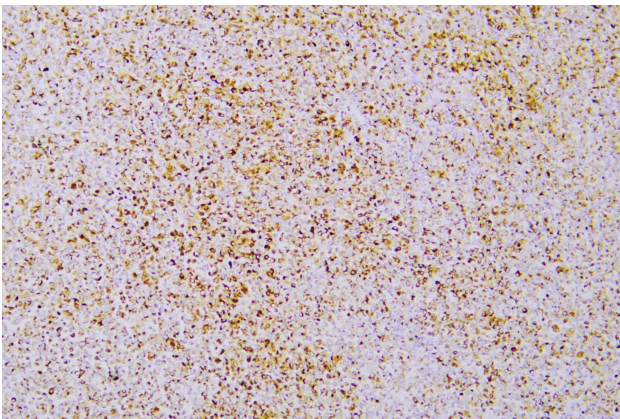
The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The encoded protein is a cell surface glycoprotein that is known to complex with integrins. It may function as a blood platelet activation marker. Deficiency of this protein is associated with Hermansky-Pudlak syndrome. Also this gene has been associated with tumor progression. Alternative splicing results in multiple transcript variants encoding different protein isoforms. [provided by RefSeq, Apr 2012],

## 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.



Human malignant melanoma was stained with anti-CD63 (ABT135R) rabbit mAb

