# Product Datasheet

## CD63 Antibody / LAMP-3 (orb640058)

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| **Description** | This MAb recognizes protein of 26kDa-60kDa, which is identified as CD63. The tetraspanins are integral membrane proteins expressed on cell surface and granular membranes of hematopoietic cells and are components of multi-molecular complexes with specific integrins. The tetraspanin CD63 is a lysosomal membrane glycoprotein that translocates to the plasma membrane after platelet activation. CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T cell and B cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes. CD63 is a member of the TM4 superfamily of leukocyte glycoproteins that includes CD9, CD37 and CD53, which contain four transmembrane regions. CD63 may play a role in phagocytic and intracellular lysosome-phagosome fusion events. CD63 deficiency is associated with Hermansky-Pudlak syndrome and is strongly expressed during the early stages of melanoma progression. |
| **Species/Host** | Mouse |
| **Reactivity** | Human |
| **Conjugation** | Unconjugated |
| **Tested Applications** | IHC-P, WB |
| **Immunogen** | A recombinant human partial protein (amino acids 100-197) was used as the immunogen for the CD63 antibody. |
| **Preservatives** | 0.2 mg/ml with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide |
| **Storage** | Store the CD63 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide). |
| **Note** | For research use only |
| **Application notes** | Optimal dilution of the antibody should be determined by the researcher. |
| **Formula** | 0.2 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide |

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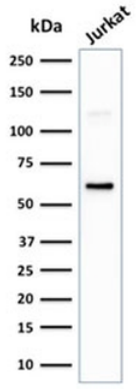
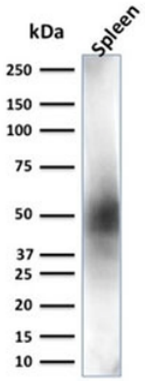
| | |
|---|---|
| **Isotype** | Mouse IgG2a, kappa |
| **Clonality** | Monoclonal |
| **Clone Number** | LAMP3/2881 |
| **Antibody Type** | Primary Antibody |
| **Purity** | Protein G affinity chromatography |
| **Uniprot ID** | **P08962** |
| **Hazard Information** | This CD63 antibody is available for research use only. |
| **Dilution Range** | Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml |
| **Expiration Date** | 12 months from date of receipt. |




Western blot testing of human Jurkat cell lysate with CD63 antibody (clone LAMP3/2881). Predicted molecular weight: 25-60 kDa depending on glycosylation level.




Western blot testing of human spleen lysate with CD63 antibody (clone LAMP3/2881). Predicted molecular weight: 25-60 kDa depending on glycosylation level.

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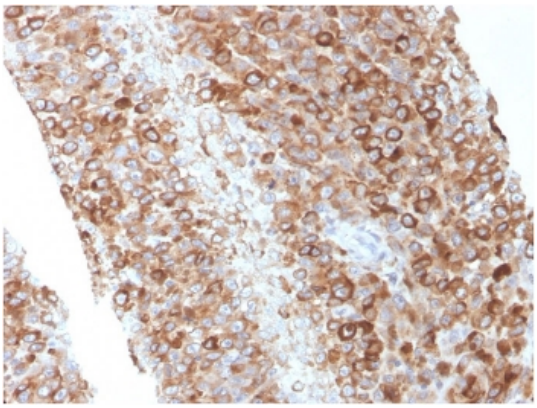
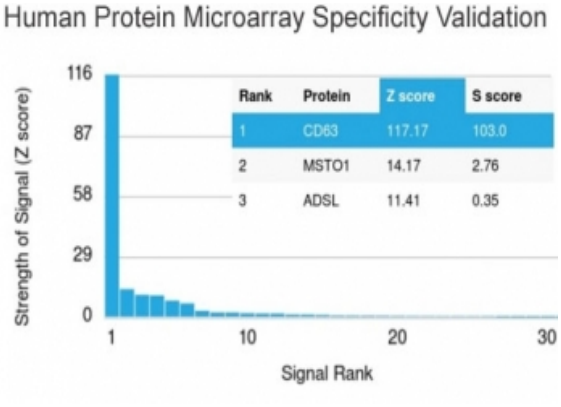
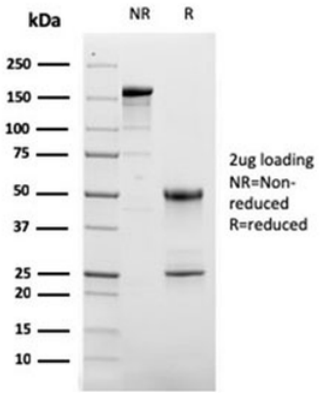


IHC staining of FFPE human melanoma with CD63 antibody (clone LAMP3/2881). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using CD63 antibody (clone LAMP3/2881). These results demonstrate the foremost specificity of the LAMP3/2881 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.




SDS-PAGE analysis of purified, BSA-free CD63 antibody (clone LAMP3/2881) as confirmation of integrity and purity.

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