

## 36-1956: Monoclonal Antibody to CD63 (Late Endosomes Marker)(Clone : NKI/C3)

| Clonality :   | Monoclonal        |
|---|-------------------|
| Clone Name :  | NKI/C3            |
| Application :   | FACS,IF,IHC       |
| Reactivity :  | Human, Mouse      |
| Gene :  | CD63              |
| Gene ID :   | 967               |
| Uniprot ID :  | P08962            |
| Format :  | Purified          |
| Alternative Name :  | CD63,MLA1,TSPAN30 |
| Isotype :   | Mouse IgG1, kappa |
| Immunogen Information : Smooth plasma membrane fraction of MeWo cells |                   |

### Description

This MAb recognizes protein of 26kDa-60kDa, which is identified as CD63. Its epitope is different from that of MAb LAMP3/529. 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.

## **Product Info**

| Amount :            | 100 µg  |
|---------------------|---|
| Purification :      | Affinity Chromatography   |
| Content :           | 100 $\mu g$ in 500 $\mu l$ PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.                     |
| Storage condition : | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

#### **Application Note**

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); ,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),

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Western Blot of human spleen Lysate with CD63 Monoclonal Antibody (NKI/C3)

Formalin-fixed, paraffin-embedded human Melanoma stained with CD63 Monoclonal Antibody (NKI/C3) (AEC Chromogen)

Formalin-fixed, paraffin-embedded Mouse Spleen stained with CD63 Monoclonal Antibody (NKI/C3) (DAB Chromogen)

Flow Cytometry of human CD63 on MCF-7 Cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled CD63 Monoclonal Antibody (NKI/C3).