

For Research Use Only

CD63 Polyclonal antibody

Catalog Number: 25682-1-AP **305 Publications**



Basic Information

| | | |
|---|--|---|
| Catalog Number: 25682-1-AP | GenBank Accession Number: BC002349 | Purification Method: Antigen affinity purification |
| Size: 800 µg/ml | GeneID (NCBI): 967 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:400-1:1600 IF 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P08962 | |
| Isotype: IgG | Full Name: CD63 molecule | |
| Immunogen Catalog Number: AG19690 | Calculated MW: 26 kDa | |
| | Observed MW: 28-35 kDa | |

Applications

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| Tested Applications: IF-P, IHC, WB, ELISA | Positive Controls: WB : human urine exosomes tissue, human serum exosomes IHC : human malignant melanoma tissue, human tonsillitis tissue, human lymphoma tissue IF : human malignant melanoma tissue, |
| Cited Applications: WB,IP,IHC,IF,FC | |
| Species Specificity: human | |
| Cited Species: human, monkey, rabbit, zebrafish, pig, canine | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

CD63 is a 30-60 kDa lysosomal membrane protein that belongs to the tetraspanin family. This protein plays many important roles in immuno-physiological functions. It mediates signal transduction events that play a role in the regulation of cell development, activation, growth, and motility. CD63 is expressed on activated platelets, thus it may function as a blood platelet activation marker. CD63 is a lysosomal membrane glycoprotein that is translocated to plasma membrane after platelet activation. The CD63 tetraspanin is highly expressed in the early stages of melanoma and decreases in advanced lesions, suggesting it as a possible suppressor of tumor progression. Deficiency of this protein is associated with Hermansky-Pudlak syndrome.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|----------------------------|-------------|
| Yong Chen | 36224027 | Front Biosci (Landmark Ed) | WB |
| Xinyan Zhou | 36171212 | Nat Commun | WB |
| Jingming Zhuang | 36161709 | Andrology | WB |

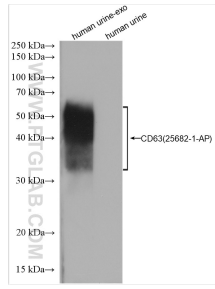
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

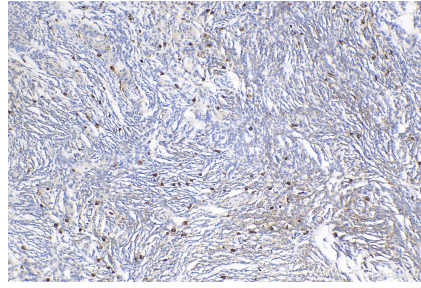
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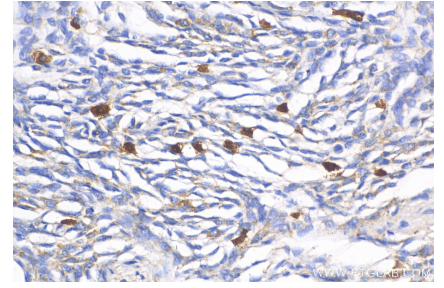
Selected Validation Data



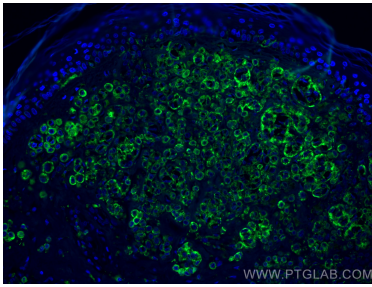
human urine exosomes tissue were subjected to SDS PAGE followed by western blot with 25682-1-AP (CD63 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



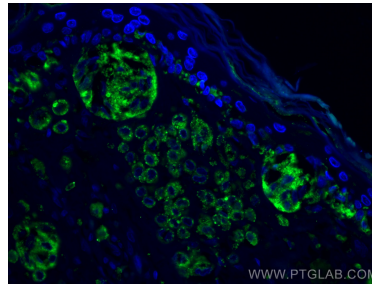
Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using 25682-1-AP (CD63 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using 25682-1-AP (CD63 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human malignant melanoma tissue using CD63 antibody (25682-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human malignant melanoma tissue using CD63 antibody (25682-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).