

For Research Use Only

CD55 Polyclonal antibody

Catalog Number: 26580-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

26580-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25026

GenBank Accession Number:

BC001288

GeneID (NCBI):

1604

UNIPROT ID:

P08174

Full Name:

CD55 molecule, decay accelerating factor for complement (Cromer blood group)

Calculated MW:

41 kDa

Observed MW:

60-80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:4000-1:16000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB : A549 cells, HeLa cells, MKN-45 cells, human placenta tissue

IHC : human placenta tissue, human tonsillitis tissue

IF/ICC : A549 cells,

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

CD55, also known as DAF, is a glycosylphosphatidylinositol (GPI)-anchored surface glycoprotein that is widely distributed on blood, stroma, epithelial, and endothelial cells (PMID: 7517044; 29503741). It can also exist as a soluble form in plasma, urine, saliva, tears, and synovial fluids (PMID: 29503741). CD55 is a complement regulatory protein (PMID: 2469439; 7517044). It inhibits formation of the C3 convertases through binding to C3b and C4b. It also binds the alternate pathway convertase C3bBb, the classical pathway convertase and C4b2a to accelerate their decay (PMID: 17289551). CD55 also serves as a receptor for coxsackieviruses B1, B3, and B5 and several enteroviruses (PMID: 7538177; 7517044). The observed molecular weight of mature CD55 varies between 50 to 100 kDa depending on the cell type. Different sizes of CD55 might be caused by alternative splicing or different glycosylation patterns (PMID: 29503741).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|------------------|-------------|
| Yingchun Zhang | 31091357 | Clin Exp Immunol | WB |
| Yingying Wen | 33964483 | J Proteomics | WB |
| Yuwen Zhang | 35837026 | Exp Ther Med | IF |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

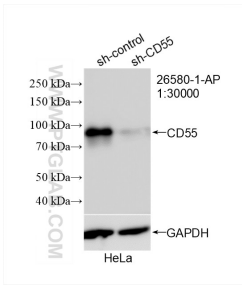
For technical support and original validation data for this product please contact:

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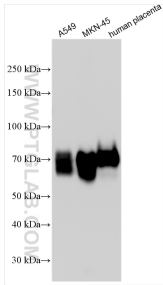
E: proteintech@ptglab.com
W: ptglab.com

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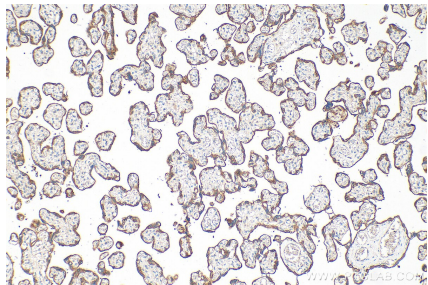
Selected Validation Data



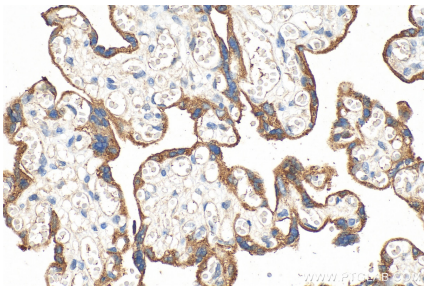
WB result of CD55 antibody (26580-1-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CD55 transfected HeLa cells.



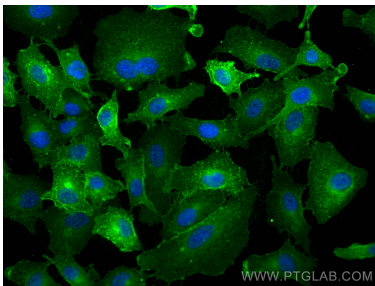
Various lysates were subjected to SDS PAGE followed by western blot with 26580-1-AP (CD55 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 26580-1-AP (CD55 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 26580-1-AP (CD55 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using CD55 antibody (26580-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).