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Mouse anti DDDDK-Tag mAb

Catalog No.: AE005 **214 Publications**

Basic Information

Observed MW
55kDa/48kDa/40kDa

Calculated MW

Category
Tag antibody

Applications
ELISA,WB,IF/ICC,IP

Cross-Reactivity
Species independent

CloneNo number
AMC0382

Background

FLAG-tag, or FLAG octapeptide, or FLAG epitope, is a polypeptide protein tag that can be added to a protein using recombinant DNA technology, having the sequence motif DYKDDDDK. It has been used for studying proteins in living cells and for protein purification by affinity chromatography. It has been used to separate recombinant, overexpressed protein from wild-type protein expressed by the host organism. It can also be used in the isolation of protein complexes with multiple subunits, because its mild purification procedure tends not to disrupt such complexes. It has been used to obtain proteins of sufficient purity and quality to carry out 3D structure determination by x-ray crystallography.A FLAG-tag can be used in many different assays that require recognition by an antibody. If there is no antibody against a given protein, adding a FLAG-tag to a protein allows the protein to be studied with an antibody against the FLAG sequence. Examples are cellular localization studies by immunofluorescence or detection by SDS PAGE protein electrophoresis and Western blotting.

Recommended Dilutions

WB	1:1000 - 1:6000
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

Immunogen Information

Gene ID **Swiss Prot**

Immunogen
A synthetic peptide corresponding to DDDDK tag.

Synonyms
DDDDK;DDDDK tag;DDDDK-tag

Contact

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Product Information

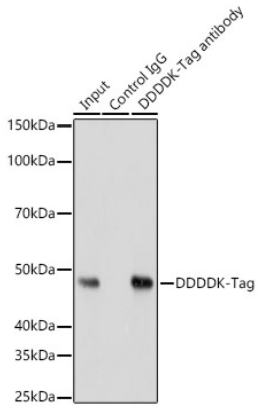
Source
Mouse

Isotype
IgG1,Kappa

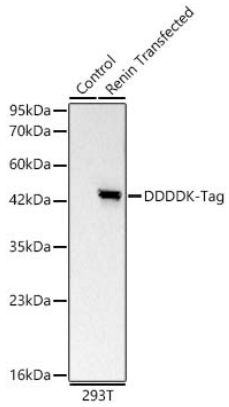
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

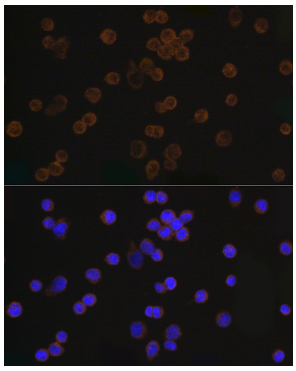
Validation Data



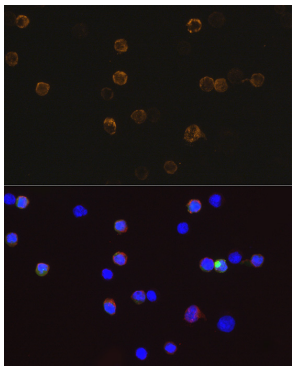
Immunoprecipitation analysis of 200ug extract cell lysate from 293T cells transfected with GSK3B expression vector containing a DDDDK-Tag with 3 µg Mouse anti DDDDK-Tag mAb antibody (AE005).Western blot was performed from the immunoprecipitate using Mouse anti DDDDK-Tag mAb antibody(AE005).



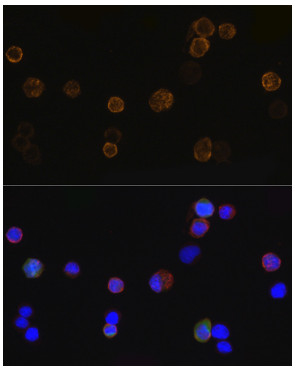
Western blot analysis of lysates from wild type (WT) and 293T cells transfected with Renin using Mouse anti DDDDK-Tag mAb (AE005) at 1:5000 dilution.
Secondary antibody:HRP Goat Anti-Mouse IgG (H+L)(AS003) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



Immunofluorescence analysis of 293T cells using Mouse anti DDDDK-Tag mAb (AE005) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

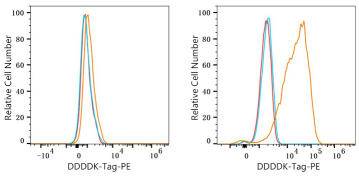


Immunofluorescence analysis of 293T-BCAT2-Flag-GFP-C cells using Mouse anti DDDDK-Tag mAb (AE005) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

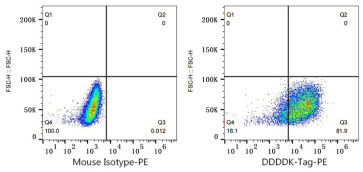


Immunofluorescence analysis of 293T-BCAT2-Flag-GFP-N cells using Mouse anti DDDDK-Tag mAb (AE005) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Validation Data



Flow cytometry: 1X10^6 CHO cells (negative control,left) and CHO-Claudin18.2-Flag (Transfection,right) cells were intracellularly-stained with Mouse anti DDDDK-Tag mAb (AE005,2 µg/mL,orange line) or Mouse isotype control (2 µg/mL,blue line), followed by PE Goat anti-Mouse pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 CHO-Claudin18.2-Flag (Transfection,right) cells were intracellularly-stained with Mouse isotype control (2 µg/mL,left) or Mouse anti DDDDK-Tag mAb (AE005,2 µg/mL,right), followed by PE Goat anti-Mouse pAb staining.