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DDDDK-Tag Rabbit mAb

Catalog No.: AE063 Recombinant 26 Publications

Basic Information

Observed MW
Refer to Figures

Calculated MW

Category
Tag antibody

Applications
WB,IHC,IF/ICC,IP

Cross-Reactivity

CloneNo number
ARC5111-02

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	1:500 - 1:2000
IHC	1:50 - 1:500
IF/ICC	1:50 - 1:500
IP	1:50 - 1:500

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

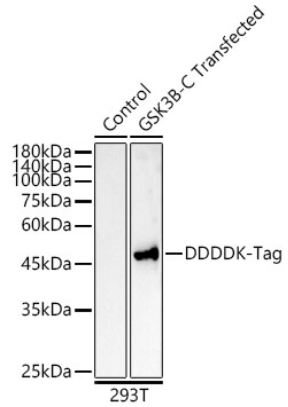
Source
Rabbit

Isotype
IgG

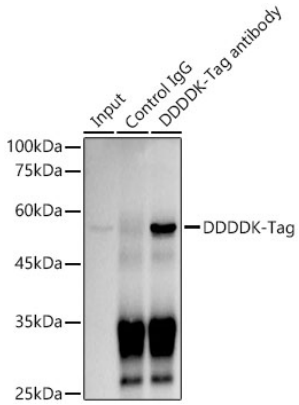
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

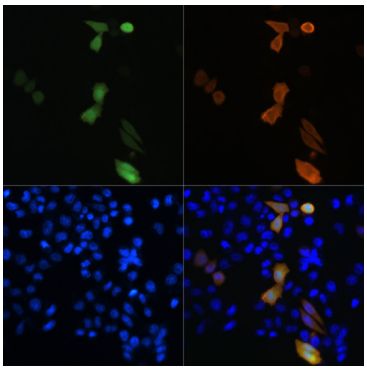
Validation Data



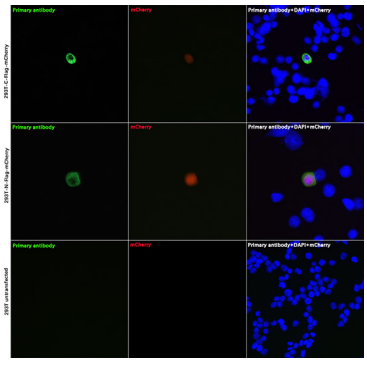
Western blot analysis of 293T, using DDDDK-Tag antibody (AE063) at 1:5000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



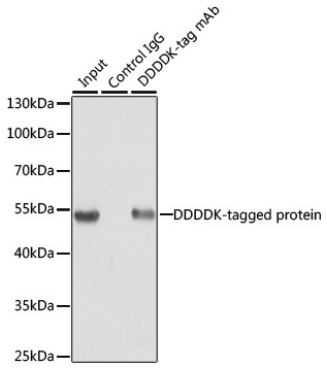
Immunoprecipitation analysis of 600ug extracts of 293T cells using 3ug DDDDK-Tag antibody (AE063). Western blot was performed from the immunoprecipitate using DDDDK-Tag (AE063) at a dilition of 1:1000.



Immunofluorescence analysis of GFP-DDDDK transgenic HeLa cells using DDDDK-Tag antibody (AE063). Green: GFP expression. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of 293T-Flag-C and 293T-Flag-N and 293T cells using DDDDK-Tag Rabbit mAb (AE063) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunoprecipitation of over-expressed DDDDK-tagged protein in 293T cells incubated using DDDDK-tag antibody (AE063),Secondary antibody: HRP-conjugated AffiniPure Mouse Anti-Rabbit IgG Light Chain (AS061). A mock served as negative control and over-expressed 293T cell lysate served as positive control.