Leader in Biomolecular Solutions for Life Science

Rabbit anti DDDDK-Tag pAb

Catalog No.: AE004

52 Publications

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Basic Information

Observed MW
48kDa

Calculated MW

Category
Tag Antibodies

Applications
WB, IP, IF/ICC

Cross Reactivity
Species independent

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	1:2000 - 1:10000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
IF/ICC	1:100 - 1:400

Immunogen Information

Gene ID **Swiss-Prot**

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
DDDDK;DDDDK tag;DDDDK-tag

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

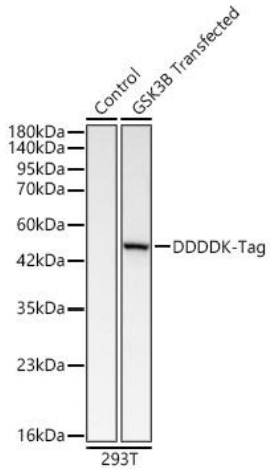
Source
Rabbit

Isotype
IgG

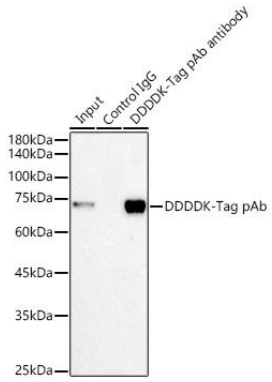
Purity
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

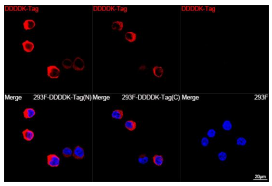
Validation Data



Western blot analysis of lysates from wild type (WT) and 293T cells transfected with DDDDK-Tag using Rabbit anti DDDDK-Tag pAb (AE004) at 1:10000 dilution.
Secondary antibody:(AS014) 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: 1s.



Immunoprecipitation analysis of 300 µg extracts of 293T-SERPINB1-Flag-GFP cells using 3 µg DDDDK-Tag pAb (AE004). Western blot was performed from the immunoprecipitate using DDDDK-Tag pAb (AE004) at a dilition of 1:50000.



Confocal imaging of 293F cells transfected with DDDDK-Tag (N) and 293T cells transfected with DDDDK-Tag (C) using Rabbit anti DDDDK-Tag pAb (AE004, dilution 1:400) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.