

DYKDDDDK Epitope Tag antibody

Catalog Number: ATGA0504

PRODUCT INFORMATION

Catalog number

ATGA0504

Clone No.

AT3G6

Product type

Monoclonal Antibody

UnitProt No.

N/A

NCBI Accession No.

Alternative Names

FLAG tag

PRODUCT SPECIFICATION

Antibody Host

Mouse

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Synthetic peptide(DYKDDDDKC)-KLH

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

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 is an artificial antigen to which specific, high affinity monoclonal antibodies have been developed and hence can be used for protein purification by affinity chromatography and also can be used for locating proteins with in living cells. 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.

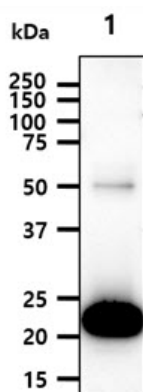
General References

Dave JM, et al (2016), J Cell Sci 129:743-56.

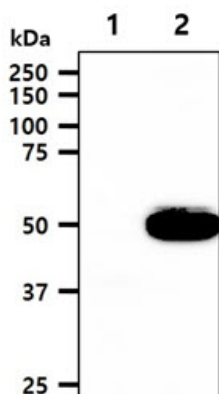
Guo H, et al (2016), Genome Biol 17:24.

DATA

Western blot analysis (WB)



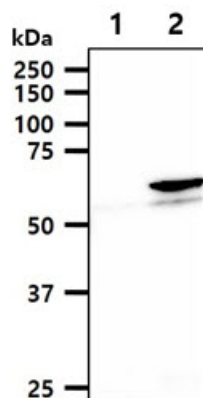
The recombinant protein (200ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Flag tag antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant Human 6XHis-SNCA-3xFlag



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Flag tag antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate
Lane 2.: ODC1-Flag tag Transfected 293T cell lysate

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Lane 1.: 293T cell lysate

Lane 2.: HDAC2-Flag tag Transfected 293T cell lysate