For Research Use Only

# DYKDDDDK tag Polyclonal antibody (Binds to FLAG® tag epitope)

Catalog Number:20543-1-AP

2082 Publications

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## Basic Information

Catalog Number:
20543-1-AP

Size:
150ul , Concentration: 670 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2329

GenBank Accession Number:

GeneID (NCBI):

Full Name:

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:20000-1:100000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF/ICC: 1:200-1:800

## Applications

Tested Applications:
WB, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, ChIP, RIP, ELISA

Species Specificity:
recombinant protein

Cited Species:
human, mouse, pig, silkworm, recombinant protein

Positive Controls:

WB : Transfected HEK-293T cells,

IP : Transfected HEK-293T cells,

IF/ICC : Transfected HEK-293 cells,

## Background Information

Protein tags are protein or peptide sequences located either on the C- or N- terminal of the target protein, which facilitates one or several of the following characteristics: solubility, detection, purification, localization and expression. The DYKDDDDK(FLAG) peptide has been used extensively as a general tag in expression vectors. This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion. N-terminal DDDDK vectors provide an Ek cleavage site for removal of the fusion tag. The DDDDK peptide is likely to be located on the surface of a fusion protein because of its hydrophilic nature. As a result, the DDDDK peptide is more likely to be accessible to antibodies. A DDDDK-tag can be used in many different assays that require recognition by an antibody, such as western blotting, immunocytochemistry, immunoprecipitation, flow cytometry, protein purification, and in the study of protein-protein interactions, cell ultrastructure, and protein localization and so on. This antibody is a rabbit polyclonal antibody raised against 3xFlag (3xDYKDDDDKT) sequence and recognizes the (1x) and (3x)DYKDDDDK peptide and detects DDDDK-tagged proteins. Anti-FLAG is a registered trademark of Sigma-Aldrich Biotechnology.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Sirwan Sleman | 36179070 | Viral Immunol | WB,IP |
| Huanru Wang | 31575039 | Int J Mol Sci | |
| M Zatyka | 25274773 | Hum Mol Genet | IP |

## Storage

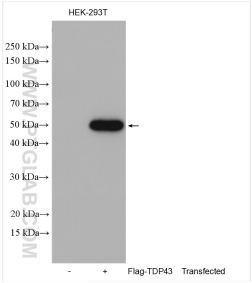
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

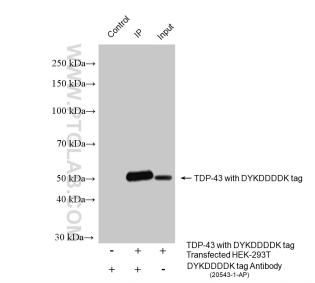
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

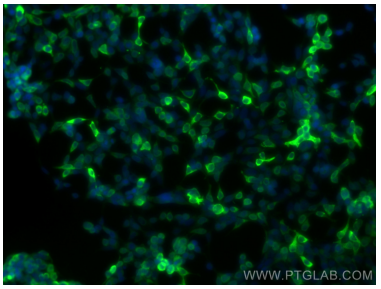
## Selected Validation Data




HEK-293T cells and transfected HEK-293T lysates were subjected to SDS PAGE followed by western blot with 20543-1-AP (DYKDDDDK tag antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.




IP result of anti-DYKDDDDK tag (IP:20543-1-AP, 4ug; Detection:20543-1-AP 1:50000) with Transfected HEK-293T cells lysate 2160 ug.




Immunofluorescent analysis of (-20°C Ethanol) fixed Transfected HEK-293 cells using DYKDDDDK tag antibody (20543-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).