For Research Use Only

DYKDDDDK tag Recombinant antibody (Binds to FLAG® tag epitope)

Catalog Number:80010-1-RR 123 Publications

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Basic Information

Catalog Number:
80010-1-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2329

GenBank Accession Number:

GeneID (NCBI):
8

Full Name:
Flag Tag

Purification Method:
Protein A purification

CloneNo.:
4K14

Recommended Dilutions:
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF/ICC 1:200-1:1000

Applications

Tested Applications:
IF/ICC, IP, ELISA

Cited Applications:
IF, IP, CoIP, RIP

Species Specificity:
recombinant protein

Cited Species:
mouse

Positive Controls:

IP : Transfected HEK-293 cells,

IF/ICC : Transfected HEK-293 cells, HEK-293 cells

Background Information

DYKDDDDK Tag (Equivalent To FLAG Antibody From Sigma) with the following sequence DYKDDDDK, is a hydrophilic tag for recombinant protein technology. Tags can be used as a tool to localize gene products in a variety of cell types, study proteins topology, and also help to identify and characterize new, low abundance or poorly immunogenic proteins. Due to its high hydrophilic character, the DYKDDDDK tag is likely to be located on the surface of a fusion protein, which enables the tag to be accessible for antibodies. DYKDDDDK Tag Antibody is generated against 1xDYKDDDDK tag (DYKDDDDK) and can recognize protein containing one or more DDDDK tags, independently on N-terminal, C-terminal or internal regions of the target protein. Anti-FLAG is a registered trademark of Sigma-Aldrich Biotechnology.

Notable Publications

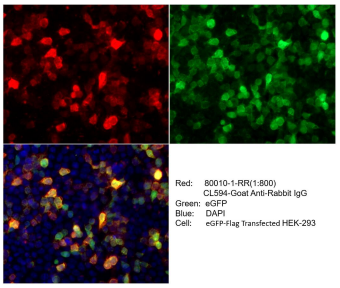
Author	Pubmed ID	Journal	Application
Chunming Gu	36109490	Oncogenesis	IF,CoIP
Yubo Zhao	36064939	Cell Death Dis	
Hongyu Gu	36077559	Int J Mol Sci	IP

Storage

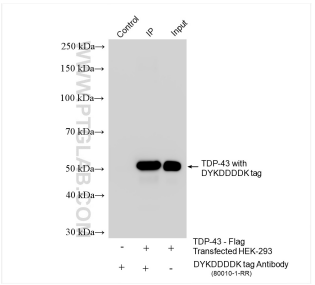
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

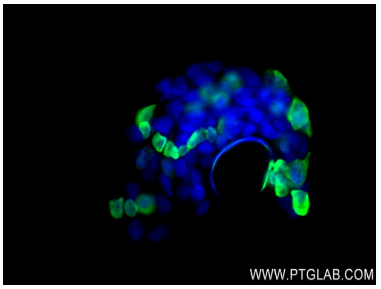
Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 (eGFP-DYKDDDDK transfected) cells using DYKDDDDK tag antibody (80010-1-RR, Clone: 4K14) at dilution of 1:800 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), eGFP (Green), DYKDDDDK (Red), DAPI (Blue).

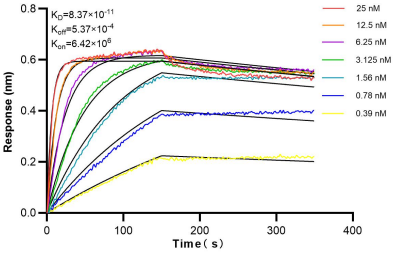


IP result of anti-DYKDDDDK tag (IP:80010-1-RR, 4ug; Detection:80010-1-RR 1:3000) with Transfected HEK-293 cells lysate 400 ug.



Immunofluorescent analysis of (4% PFA) fixed Transfected HEK-293 cells using DYKDDDDK tag antibody (80010-1-RR, Clone: 4K14) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).

1x10^6 Transfected HEK-293 cells were intracellularly stained with 0.25 ug DYKDDDDK tag Recombinant antibody (Binds to FLAG® tag epitope) (80010-1-RR, Clone:4K14) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 80010-1-RR against DYKDDDDK tag were performed. The affinity constant is 83.7 pM.