

MYC tag Polyclonal antibody

Catalog Number: 16286-1-AP 462 Publications

Basic Information

Catalog Number:

16286-1-AP

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9409

GenBank Accession Number:

GeneID (NCBI):

99

Full Name:

Myc tag

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:8000

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

Species Specificity:

recombinant protein

Cited Species:

human, mouse, pig

Positive Controls:

WB : Recombinant protein protein, Recombinant protein

IP : Transfected HEK-293 cells,

IF/ICC : Transfected HEK-293 cells, MCF-7 cells

Background Information

The myc-tag is a short synthetic polypeptide sequence derived from c-MYC protein that can be added to recombinant proteins to enable isolation and study when an antibody is not available. This antibody recognizes the MYC tag EQKLISEEDL. MYC tag is a part of c-MYC protein. So there's weaker 62-65 kDa bands for endogenous c-MYC protein. What is the molecular weight of myc? 1203Da: the ten amino acid myc tag sequence is EQKLISEEDL (in single letter code). What are the applications for myc tag? The addition of the myc tag to a particular protein can be useful when an antibody is not available to the protein of interest. Using recombinant DNA technology, the myc tag can be fused to the protein and then an antibody against the myc tag can be used to probe (PMID: 24490106). This is a reliable method and can be used in a number of different techniques, including purification using chromatography, tracking the protein in localization studies using immunofluorescence, or quantifying levels using Western Blot (PMID: 24490106). What is the structure of myc tag? The c-myc gene from which this tag is derived has a molecular weight of 49kDa, but the myc tag represents only a small portion of the C-terminus of this gene. The short polypeptide sequence can be fused to the N-terminus or the C-terminus of any protein without influencing function, although it is advised to avoid fusing it to a secretory signal. A cleavage site behind this tag is also sometimes engineered to allow removal with a specific protease.

Notable Publications

Author	Pubmed ID	Journal	Application
Pengcheng Ma	36179027	Sci Adv	WB
Ningning Yao	28966017	Structure	IF
Fengxia Zhang	36153541	Cell Div	WB

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

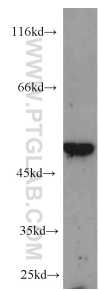
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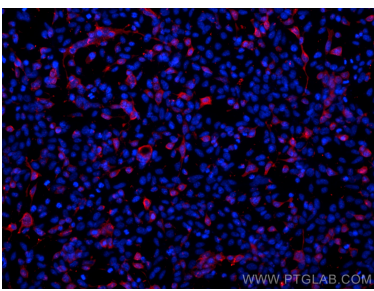
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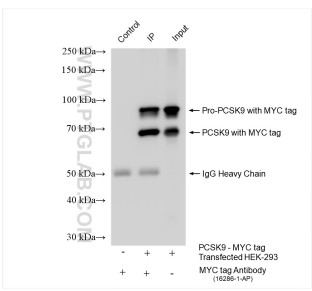
Selected Validation Data



Recombinant protein were subjected to SDS PAGE followed by western blot with 16286-1-AP (MYC-tag antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed Transfected HEK-293 cells using MYC tag antibody (16286-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-MYC tag (IP:16286-1-AP, 4ug; Detection:16286-1-AP 1:3000) with Transfected HEK-293 cells lysate 500 ug.