For Research Use Only

MYC tag Polyclonal antibody Catalog Number:16286-1-AP 431 Publications



Basic Information	Catalog Number: 16286-1-AP Size: 150ul, Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG9409	GenBank Acce Genel D (NCBI) 99 Full Name: Myc tag	ssion Number: :	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 Species Specificity: recombinant protein Cited Species: human, mouse		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 Pu	bmed ID	Journal	Application
	Pengcheng Ma 36	179027	Sci Adv	WB
	Ningning Yao 28	966017	Structure	IF
	Fengxia Zhang 36	153541	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			
*** 20ul sizes contain 0.1% BSA	ta for this product please contact:		This product	is exclusively available under Proteintech

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Selected Validation Data







Recombinant protein were subjected to SDS PAGE followed by western blot with 16286-1-AP (MYCtag 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.