

For Research Use Only

APC-conjugated MYC tag Recombinant monoclonal antibody

Catalog Number: APC-80469-2



Basic Information

Catalog Number:

APC-80469-2

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9409

GenBank Accession Number:

GeneID (NCBI):

UNIPROT ID:

MYCTAG

Full Name:

Purification Method:

Protein A purification

CloneNo.:

241611D1

Recommended Dilutions:

FC (Intra): 0.1 ug per 10^6 cells in a 100 μ l suspension

Excitation/Emission maxima wavelengths:

650 nm / 660 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

recombinant protein

Positive Controls:

FC (Intra) : Transfected HEK-293T 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.

Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:

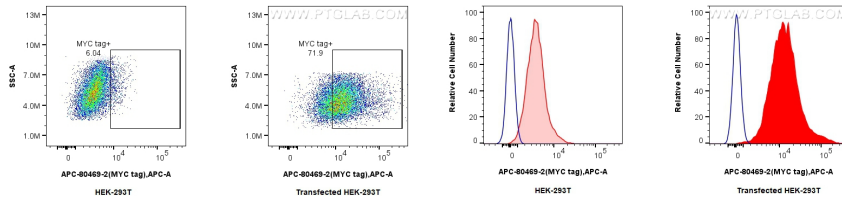
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Selected Validation Data



1x10⁶ HEK-293T cells or Transfected HEK-293T cells were intracellularly stained with 0.1 ug APC-conjugated MYC tag Recombinant monoclonal antibody (APC-80469-2, Clone:241611D1). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).

1x10⁶ HEK-293T cells or Transfected HEK-293T cells were intracellularly stained with 0.1 ug APC-conjugated MYC tag Recombinant monoclonal antibody (APC-80469-2, Clone:241611D1)(red) or 0.1 ug APC Rabbit IgG Isotype Control Recombinant Antibody (APC-98136, Clone: 240953C9)(blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).