ARG57167
anti-Enolase 1 / 2 antibody [1G7]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1G7] recognizes Enolase 1 / 2
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	1G7
Isotype	IgG2a, kappa
Target Name	Enolase 1 / 2
Species	Human
Immunogen	Recombinant fragment around aa. 1-434 of Human Enolase1/2
Conjugation	Un-conjugated
Alternate Names	MPB1; Plasminogen-binding protein; Alpha-enolase; MBP-1; NNE; PPH; Enolase 1; ENO1L1; Phosphopyruvate hydratase; 2-phospho-D-glycerate hydro-lyase; C-myc promoter-binding protein; Non-neural enolase; MPB-1; EC 4.2.1.11

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
ICC/IF	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

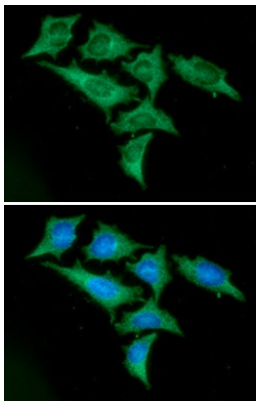
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 2023 Human Swiss-port # P06733 Human
Gene Symbol	ENO1
Gene Full Name	enolase 1, (alpha)
Background	This gene encodes alpha-enolase, one of three enolase isoenzymes found in mammals. Each isoenzyme is a homodimer composed of 2 alpha, 2 gamma, or 2 beta subunits, and functions as a glycolytic enzyme. Alpha-enolase in addition, functions as a structural lens protein (tau-crystallin) in the monomeric form. Alternative splicing of this gene results in a shorter isoform that has been shown to bind to the c-myc promoter and function as a tumor suppressor. Several pseudogenes have been identified, including one on the long arm of chromosome 1. Alpha-enolase has also been identified as an autoantigen in Hashimoto encephalopathy. [provided by RefSeq, Jan 2011]
Function	Multifunctional enzyme that, as well as its role in glycolysis, plays a part in various processes such as growth control, hypoxia tolerance and allergic responses. May also function in the intravascular and pericellular fibrinolytic system due to its ability to serve as a receptor and activator of plasminogen on the cell surface of several cell-types such as leukocytes and neurons. Stimulates immunoglobulin production. MBP1 binds to the myc promoter and acts as a transcriptional repressor. May be a tumor suppressor. [UniProt]
Calculated Mw	47 kDa
PTM	ISGylated.

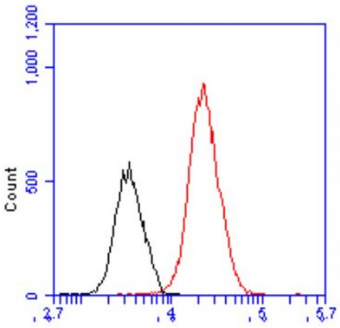
Images



ARG57167 anti-Enolase 1/2 antibody [1G7] ICC/IF image

Immunofluorescence: HeLa cells line stained with ARG57167 anti-Enolase 1/2 antibody [1G7] at 1:100 (Green).

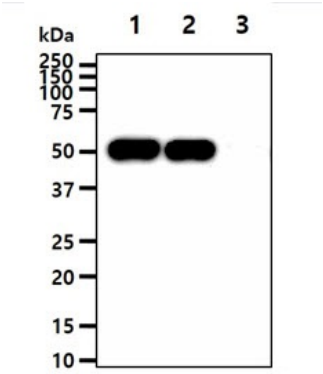
DAPI (Blue) for nucleus staining.



Alexa 488-anti-Enolase1/2 antibody

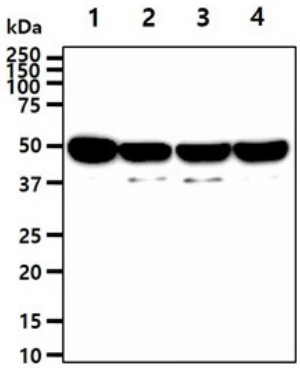
ARG57167 anti-Enolase 1/2 antibody [1G7] FACS image

Flow Cytometry: LNCap cell line stained with ARG57167 anti-Enolase 1/2 antibody [1G7] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody: Mouse IgG (black line).



ARG57167 anti-Enolase 1/2 antibody [1G7] WB image

Western blot: 50 ng of 1) ENO1 (Alpha-enolase), 2) ENO2 (Gamma-enolase), and 3) ENO3 (Beta-enolase) recombinant proteins stained with ARG57167 anti-Enolase 1/2 antibody [1G7] at 1:1000.



ARG57167 anti-Enolase 1/2 antibody [1G7] WB image

Western blot: 40 µg of 1) PC3, 2) MCF7, 3) 293T, and 4) HeLa cell lysates stained with ARG57167 anti-Enolase 1/2 antibody [1G7] at 1:1000.
