ARG10729
anti-Enolase 1 antibody [253]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [253] recognizes Enolase 1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	253
Isotype	IgG1
Target Name	Enolase 1
Antigen Species	Bovine
Immunogen	N-terminal 12 aa. of Bovine Enolase1.
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
ICC/IF	1:2000 - 1:5000
IHC-Fr	1:2000 - 1:5000
WB	1:5000 - 1:10000

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

Calculated Mw: 47 kDa

Properties

Form	Liquid
Purification	Affinity purification.
Buffer	PBS and 50% Glycerol.
Stabilizer	50% 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.

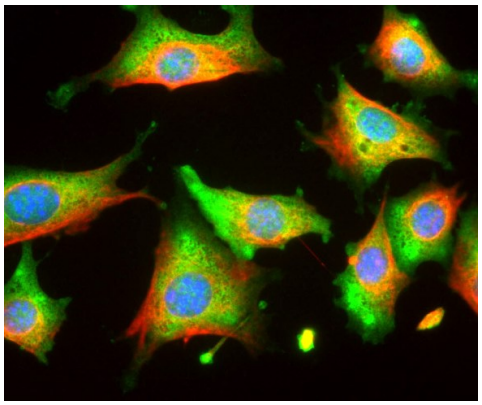
Bioinformation

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]

Images

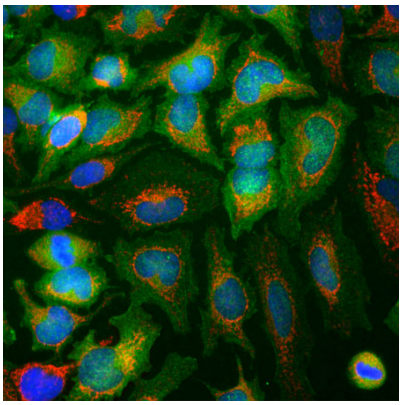
ARG10729 anti-Enolase 1 antibody [253] WB image

Western blot: 20 µg of U2OS and HeLa cell lysates stained with ARG10729 anti-Enolase 1 antibody [253] at 1:5000 dilution.



ARG10729 anti-Enolase 1 antibody [253] ICC/IF image

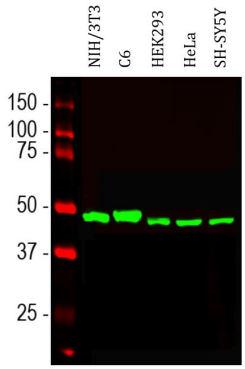
Immunocytochemistry: NIH/3T3 cells stained with ARG10729 anti-Enolase 1 antibody [253] (green) and co-stained with chicken polyclonal antibody to vimentin (red); DNA (blue). ARG10729 reveals strong cytoplasmic staining, while the vimentin antibody reveals cytoplasmic intermediate filaments.



ARG10729 anti-Enolase 1 antibody [253] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG10729 anti-Enolase 1 antibody [253] (green) at 1:500 dilution and costained with ARG10757 anti-Hsp 60 antibody (red) at 1:5000 dilution. DAPI (blue) for nuclear staining.

Clone 253 reveals strong cytoplasmic staining while the Hsp 60 antibody specifically labels mitochondria in these cells.



ARG10729 anti-Enolase 1 antibody [253] WB image

Western blot: NIH/3T3, C6, HEK293, HeLa and SH-SY5Y cell lysates stained with ARG10729 anti-Enolase 1 antibody [253] (green) at 1:10000 dilution.