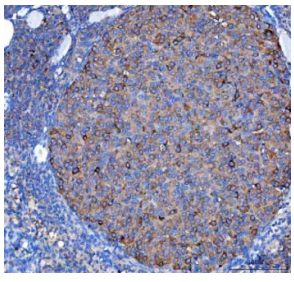
Diphosphomevalonate decarboxylase Antibody / MVD (RQ8521)

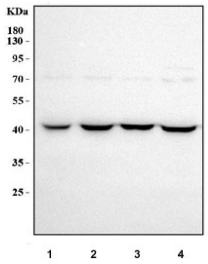
Catalog No.	Formulation	Size
RQ8521	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

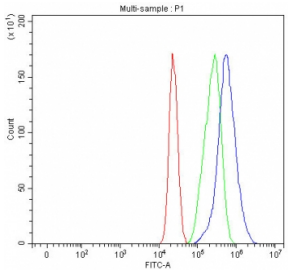
Availability	1-3 days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P53602
Localization	Cytoplasm
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This Diphosphomevalonate decarboxylase antibody is available for research use only.



IHC staining of FFPE mouse ovary tissue with Diphosphomevalonate decarboxylase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HepG2, 2) MCF7, 3) K562 and 4) Caco-2 cell lysate with Diphosphomevalonate decarboxylase antibody. Predictec molecular weight ~43 kDa.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with Diphosphomevalonate decarboxylase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Diphosphomevalonate decarboxylase antibody.

Description

The enzyme mevalonate pyrophosphate decarboxylase (MVD; EC 4.1.1.33) catalyzes the conversion of mevalonate pyrophosphate into isopentenyl pyrophosphate. This unusual enzyme decarboxylates and dehydrates its substrate while hydrolyzing ATP. As a unique enzyme in one of the early steps in cholesterol biosynthesis, MVD may be a useful target for drugs aimed at lowering serum cholesterol levels. This gene is mapped to chromosome 16q24.3 based on an alignment of the MVD sequence.

Application Notes

Optimal dilution of the Diphosphomevalonate decarboxylase antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids E62-Q374) was used as the immunogen for the Diphosphomevalonate decarboxylase antibody.

Storage

After reconstitution, the Diphosphomevalonate decarboxylase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.