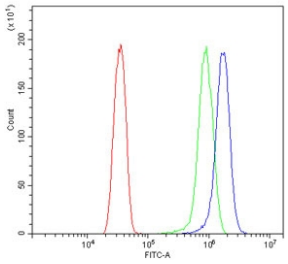
GMP Synthase Antibody / GMPS (RQ6255)

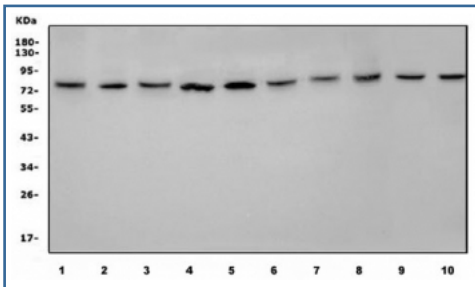
Catalog No.	Formulation	Size
RQ6255	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P49915
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This GMP Synthase antibody is available for research use only.



Flow cytometry testing of human HeLa cells with GMP Synthase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= GMP Synthase antibody.



Western blot testing of human 1) HEK293, 2) A431, 3) HL60, 4) COLO-320, 5) Raji, 6) ThP-1, 7) Jurkat, 8) K562, 9) rat PC-12 and 10) mouse thymus lysate with GMP Synthase antibody. Predicted molecular weight ~77 kDa.

Description

Guanosine monophosphate synthetase, also known as GMPS is an enzyme that converts xanthosine monophosphate to guanosine monophosphate. In the de novo synthesis of purine nucleotides, IMP is the branch point metabolite at which point the pathway diverges to the synthesis of either guanine or adenine nucleotides. In the guanine nucleotide pathway, there are 2 enzymes involved in converting IMP to GMP, namely IMP dehydrogenase (IMPD1), which catalyzes the oxidation of IMP to XMP, and GMP synthetase, which catalyzes the amination of XMP to GMP.

Application Notes

Optimal dilution of the GMP Synthase antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids H21-K671) was used as the immunogen for the GMP Synthase antibody.

Storage

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