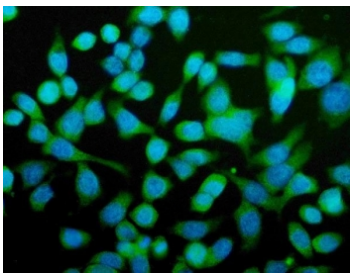
CPN1 Antibody / Carboxypeptidase N catalytic chain (RQ6347)

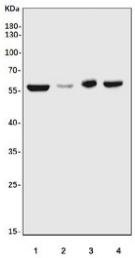
Catalog No.	Formulation	Size
RQ6347	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

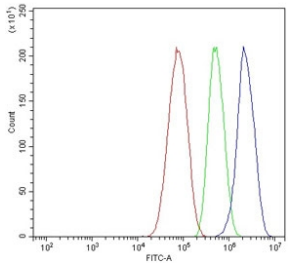
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P15169
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This CPN1 antibody is available for research use only.



Immunofluorescent staining of FFPE human Caco-2 cells with CPN1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) rat liver, 2) mouse liver, 3) rat C6 and 4) mouse HEPA1-6 cell lysate with CPN1 antibody. Predicted molecular weight ~52 kDa.



Flow cytometry testing of human HepG2 cells with CPN1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CPN1 antibody.

Description

Carboxypeptidase N catalytic chain is an enzyme that in humans is encoded by the CPN1 gene. Carboxypeptidase N is a plasma metallo-protease that cleaves basic amino acids from the C terminal of peptides and proteins. The enzyme is important in the regulation of peptides like kinins and anaphylatoxins, and has also been known as kininase-1 and anaphylatoxin inactivator. This enzyme is a tetramer comprised of two identical regulatory subunits and two identical catalytic subunits; this gene encodes the catalytic subunit. Mutations in this gene can be associated with angioedema or chronic urticaria resulting from carboxypeptidase N deficiency.

Application Notes

Optimal dilution of the CPN1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D158-N208) was used as the immunogen for the CPN1 antibody.

Storage

After reconstitution, the CPN1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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