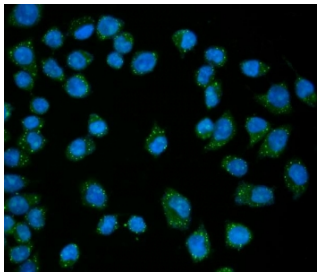
EDC4 Antibody / Enhancer of mRNA-decapping protein 4 (RQ6550)

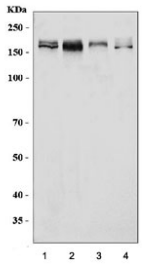
Catalog No.	Formulation	Size
RQ6550	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

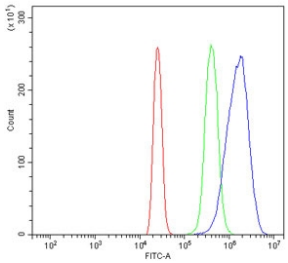
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q6P2E9
Localization	Cytoplasmic, nuclear
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This EDC4 antibody is available for research use only.



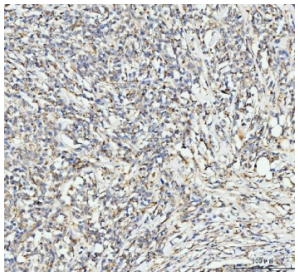
Immunofluorescent staining of FFPE human SiHa cells with EDC4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



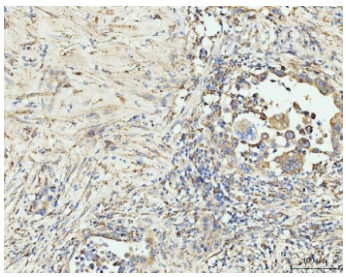
Western blot testing of human 1) HeLa, 2) Caco-2, 3) K562 and 4) ThP-1 cell lysate with EDC4 antibody. Predicted molecular weight ~152 kDa.



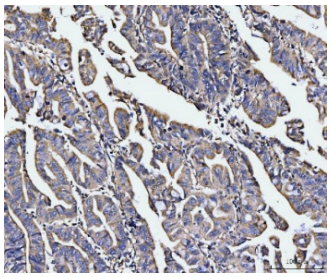
Flow cytometry testing of fixed and permeabilized human HL60 cells with EDC4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= EDC4 antibody.



IHC staining of FFPE human lymphadenoma tissue with EDC4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colorectal cancer tissue with EDC4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colorectal adenocarcinoma tissue with EDC4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Enhancer of mRNA-decapping protein 4 is a protein that in humans is encoded by the EDC4 gene. Enhancer of mRNA decapping 4 (EDC4) was originally identified as the autoantigen Ge-1 from a Sjogren's syndrome patient later diagnosed with primary biliary cirrhosis. EDC4 (also known as HEDLS) was later identified as an essential component of cytoplasmic P-bodies responsible for mRNA decapping and degradation. Identified EDC4 protein is found as a pair of isoforms generated by alternative splicing and contains several WD domains and a putative nuclear localization signal. EDC4 co-localizes with other P-body decapping proteins such as DCP1A, DCP2 and GW182. Experimental evidence suggests that EDC4 may be involved in miRNA-mediated translation repression.

Application Notes

Optimal dilution of the EDC4 antibody should be determined by the researcher.

Immunogen

An E. coli-derived human protein (amino acids K1082-L1388) was used as the immunogen for the EDC4 antibody.

Storage

After reconstitution, the EDC4 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.