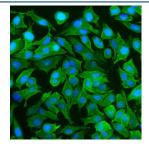


NEAS Antibody / SPTAN1 / Alpha II Spectrin / Alpha Fodrin (RQ6726)

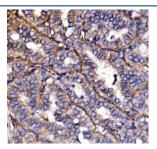
Catalog No.	Formulation	Size
RQ6726	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

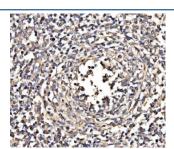
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13813
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This NEAS antibody is available for research use only.



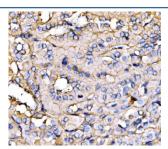
Immunofluorescent staining of FFPE human HeLa cells with NEAS antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



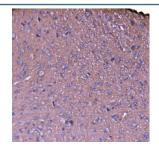
IHC staining of FFPE human Hashimoto's thyroiditis tissue with NEAS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



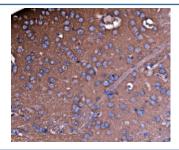
IHC staining of FFPE human testis large B cell tumor tissue with NEAS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



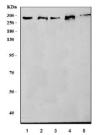
IHC staining of FFPE human thyroid papillary carcinoma tissue with NEAS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



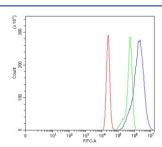
IHC staining of FFPE mouse brain tissue with NEAS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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



Western blot testing of 1) rat lung, 2) rat brain, 3) mouse lung, 4) mouse brain and 5) mouse NIH 3T3 cell lysate with NEAS antibody. Predicted molecular weight ~284 kDa.



Flow cytometry testing of human Caco-2 cells with NEAS antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NEAS antibody.

Description

Alpha II-spectrin, also known as Spectrin alpha chain, brain, Alpha II Spectrin and Alpha Fodrin is a protein that in humans is encoded by the SPTAN1 gene. Spectrins are a family of filamentous cytoskeletal proteins that function as essential scaffold proteins that stabilize the plasma membrane and organize intracellular organelles. Spectrins are composed of alpha and beta dimers that associate to form tetramers linked in a head-to-head arrangement. This gene encodes an alpha spectrin that is specifically expressed in nonerythrocytic cells. The encoded protein has been implicated in other cellular functions including DNA repair and cell cycle regulation. Mutations in this gene are the cause of early infantile epileptic encephalopathy-5. Alternate splicing results in multiple transcript variants.

Application Notes

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

Immunogen

Recombinant human protein (amino acids E1916-S2472) was used as the immunogen for the NEAS antibody.

Storage

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