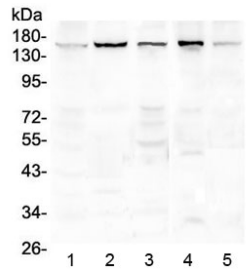
EEA1 Antibody (RQ4105)

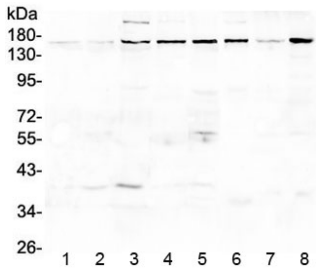
Catalog No.	Formulation	Size
RQ4105	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

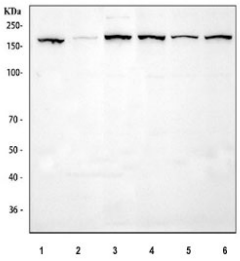
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q15075
Localization	Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This EEA1 antibody is available for research use only.



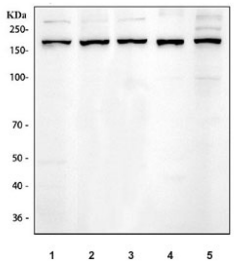
Western blot testing of human 1) HeLa, 2) placenta, 3) COLO320, 4) 22RV1 and 5) A549 lysate with EEA1 antibody at 0.5ug/ml. Predicted molecular weight ~162 kDa.



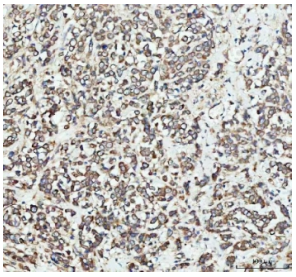
Western blot testing of rat 1) spleen, 2) thymus, 3) brain, 4) lung and mouse 5) spleen, 6) brain, 7) HEPA1-6 and 8) NIH3T3 lysate with EEA1 antibody at 0.5ug/ml. Predicted molecular weight ~162 kDa.



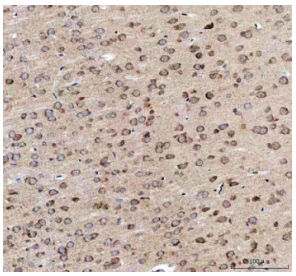
Western blot testing of human 1) RT4, 2) HaCaT, 3) HepG2, 4) SiHa, 5) K562 and 6) MCF7 cell lysate with EEA1 antibody at 0.5ug/ml. Predicted molecular weight ~162 kDa.



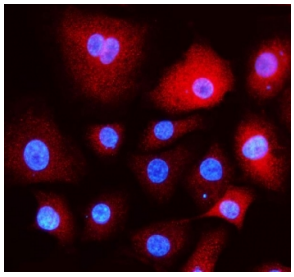
Western blot testing of 1) rat brain, 2) rat lung, 3) mouse brain, 4) mouse kidney and 5) mouse lung tissue lysate with EEA1 antibody at 0.5ug/ml. Predicted molecular weight ~162 kDa.



IHC staining of FFPE human breast cancer tissue with EEA1 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 EEA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human A549 cells with EEA1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

The gene EEA1 encodes for the 1400 amino acid protein, Early Endosome Antigen 1. It localizes exclusively to early endosomes and has an important role in endosomal trafficking. EEA1 binds directly to the phospholipid phosphatidylinositol 3-phosphate through its C-terminal FYVE domain and forms ahomodimer through a coiled coil. Furthermore, EEA1 acts as a tethering molecule that couples vesicle docking with SNAREs such as N-ethylmaleimide sensitive fusion protein, bringing the endosomes physically closer and ultimately resulting in the fusion and delivery of endosomal cargo.

Application Notes

Optimal dilution of the EEA1 antibody should be determined by the researcher.

Immunogen

Amino acids RENQSLQIKHTQALNRKWAEDNEVQN from the human protein were used as the immunogen for the EEA1 antibody.

Storage

After reconstitution, the EEA1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.