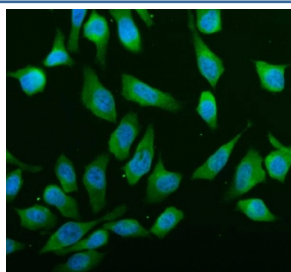


ABCE1 Antibody (R32488)

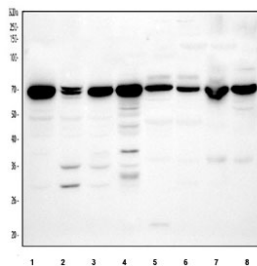
Catalog No.	Formulation	Size
R32488	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

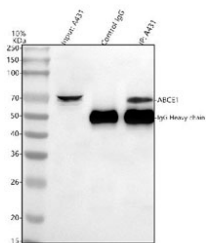
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P61221
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Immunoprecipitation : 2ug antibody/500ug lysate Flow Cytometry : 1-3ug/million cells
Limitations	This ABCE1 antibody is available for research use only.



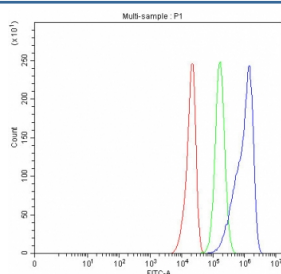
Immunofluorescent staining of FFPE human HeLa cells with ABCE1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HepG2, 2) human A431, 3) human U-2 OS, 4) human Jurkat, 5) rat brain, 6) mouse brain, 7) mouse 4T1 and 8) mouse NIH 3T3 cell lysate with ABCE1 antibody at 0.5ug/ml. Predicted molecular weight ~67 kDa.



Immunoprecipitation of ABCE1 protein from 500ug of human A431 whole cell lysate with 2ug of ABCE1 antibody.



Flow cytometry testing of fixed and permeabilized human U-251 cells with ABCE1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ABCE1 antibody.

Description

ATP binding cassette E1 (ABCE1, also called RNase L inhibitor) is an ATPase found in humans involved in viral assembly. It is a member of the ATP-binding cassette (ABC) transporters superfamily and OABP subfamily. ABCE1 inhibits the action of ribonuclease L. Ribonuclease L normally binds to 2-5A (5'-phosphorylated 2',5'-linked oligoadenylates) and inhibits the interferon-regulated 2-5A/RNase L pathway, which is used by viruses. ABCE1 heterodimerize with ribonuclease L and prevents its interaction with 2-5A, antagonizing the anti-viral properties of ribonuclease L, and allow the virus to synthesize viral proteins. It has also been implicated to have an effect in tumor cell proliferation and antiapoptosis.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the ABCE1 antibody to be titrated for optimal performance.

Immunogen

Amino acids K419-D599 from the human protein were used as the immunogen for the ABCE1 antibody.

Storage

After reconstitution, the ABCE1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

