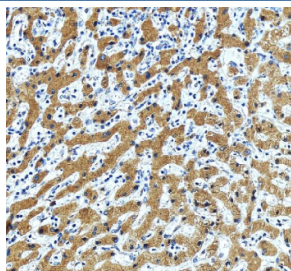


ERGIC1 Antibody / ERGIC-32 (RQ7397)

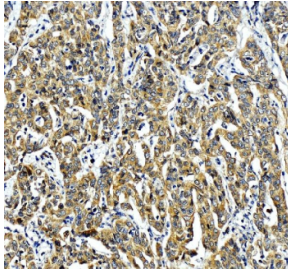
Catalog No.	Formulation	Size
RQ7397	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

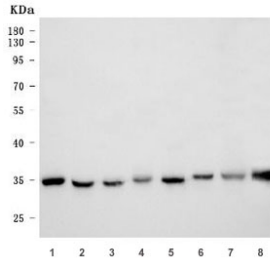
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q969X5
Localization	Cytoplasm (ER)
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml Immunoprecipitation : 2ug/500ug of lysate Direct ELISA : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This ERGIC1 antibody is available for research use only.



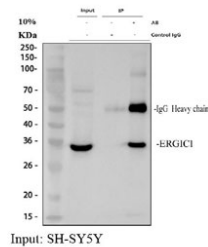
IHC staining of FFPE human liver tissue with ERGIC1 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



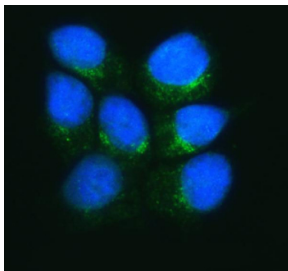
IHC staining of FFPE human liver cancer tissue with ERGIC1 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



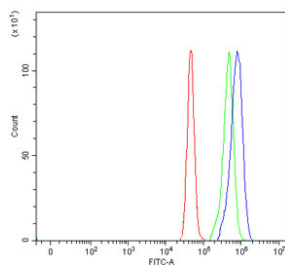
Western blot testing of 1) human HepG2, 2) human U-87 MG, 3) rat brain, 4) rat liver, 5) rat RH35, 6) mouse brain, 7) mouse liver and 8) mouse NIH 3T3 cell lysate with ERGIC1 antibody. Predicted molecular weight ~33 kDa.



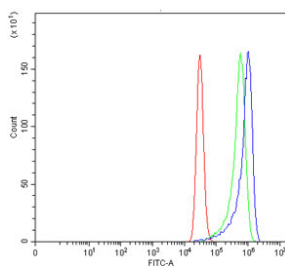
Immunoprecipitation of ERGIC1 protein from 500ug of human SH-SY5Y whole cell lysate with 2ug of ERGIC1 antibody.



Immunofluorescent staining of FFPE human MCF7 cells with ERGIC1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of fixed and permeabilized human U-87 MG cells with ERGIC1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ERGIC1 antibody.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with ERGIC1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ERGIC1 antibody.

Endoplasmic reticulum-Golgi intermediate compartment protein 1 (ERGIC1) is a membrane-associated protein that plays a key role in protein trafficking between the endoplasmic reticulum (ER) and the Golgi apparatus. ERGIC1 is a component of the ER-Golgi intermediate compartment, a central hub for cargo sorting and vesicle formation during early secretory pathway processes. Its function is critical for maintaining proper cellular homeostasis and protein secretion.

ERGIC1 is conserved across species and the human ERGIC1 gene encodes a protein of approximately 33 kDa. Multiple isoforms of ERGIC1 have been reported, arising from alternative splicing events, which may influence subcellular localization or trafficking efficiency. These isoforms can have distinct regulatory roles in vesicular transport, making them important in studies of protein processing and intracellular transport.

The ERGIC1 antibody is a valuable tool for investigating the dynamics of the early secretory pathway and ER-Golgi trafficking. Researchers use an ERGIC1 antibody in various applications such as western blotting, immunofluorescence, and immunohistochemistry to detect ERGIC1 expression patterns in different tissues or experimental conditions. The ERGIC1 antibody enables precise detection of both native and isoform-specific forms of the protein, aiding studies in cell biology, molecular trafficking, and secretory pathway disorders.

Application Notes

Optimal dilution of the ERGIC1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids S42-H290) was used as the immunogen for the ERGIC1 antibody.

Storage

After reconstitution, the ERGIC1 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.