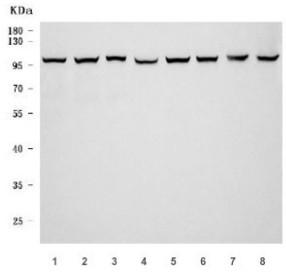
TER ATPase Antibody / VCP / Valosin-containing protein (RQ7287)

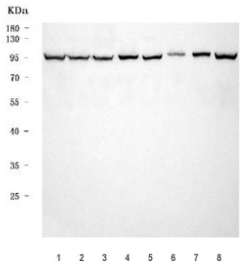
Catalog No.	Formulation	Size
RQ7287	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

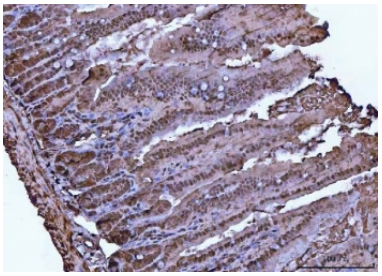
Availability	1-3 business days
Species Reactivity	Human, Monkey, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P55072
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This TER ATPase antibody is available for research use only.



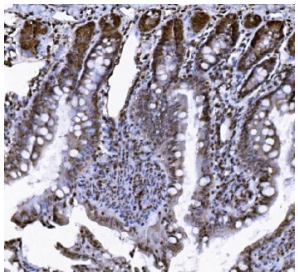
Western blot testing of 1) rat brain, 2) rat lung, 3) rat stomach, 4) rat C6, 5) mouse brain, 6) mouse lung, 7) mouse stomach and 8) mouse RAW264.7 cell lysate with TER ATPase antibody. Expected molecular weight: 89-97 kDa.



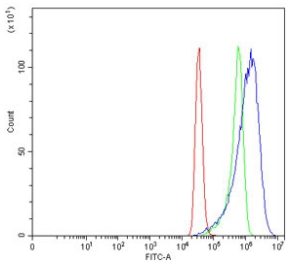
Western blot testing of 1) human HeLa, 2) human SH-SY5Y, 3) human MCF7, 4) human A431, 5) monkey COS-7, 6) human K562, 7) human placenta and 8) human HepG2 cell lysate with TER ATPase antibody. Expected molecular weight: 89-97 kDa.



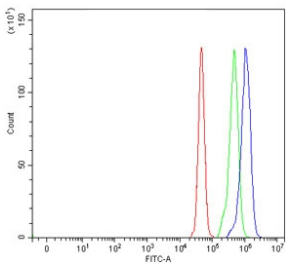
IHC staining of FFPE mouse colon tissue with TER ATPase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



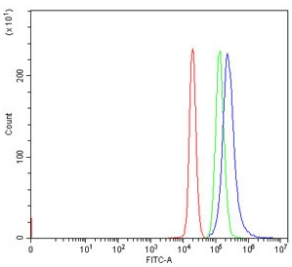
IHC staining of FFPE rat colon tissue with TER ATPase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



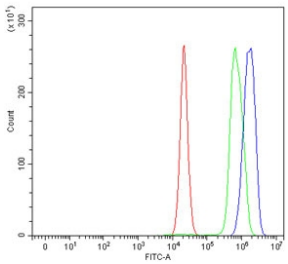
Flow cytometry testing of human MCF7 cells with TER ATPase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TER ATPase antibody.



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



Flow cytometry testing of mouse EL-4 cells with TER ATPase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TER ATPase antibody.



Flow cytometry testing of rat C6 cells with TER ATPase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TER ATPase antibody.

Description

Valosin-containing protein also called CDC48 is an enzyme that in humans is encoded by the VCP gene. It is a member of the AAA+ (ATPase associated with various activities) protein family. The VCP gene maps to chromosome 9p13.3. It is necessary for the fragmentation of Golgi stacks during mitosis and for their reassembly after mitosis. It is involved in the formation of the transitional endoplasmic reticulum. This gene plays a role in vesicle transport and fusion, 26S proteasome function, and assembly of peroxisomes. It also involved in DNA damage response: recruited to double-strand breaks (DSBs) sites in a RNF8- and RNF168-dependent manner and promotes the recruitment of TP53BP1 at DNA damage sites.

Application Notes

Optimal dilution of the TER ATPase antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D10-K512) was used as the immunogen for the TER ATPase antibody.

Storage

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

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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