

Anti-USE1 antibody

Cat. No.	ml223831
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol

Product overview

Description	Anti-USE1 rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Full length fusion protein
Reactivity	Human, Mouse
Content	0.9 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	USE1
Full name	unconventional SNARE in the ER 1 homolog (S. cerevisiae)

Synonyms D12; P31; SLT1; MDS032

Swissprot Q9NZ43

Target Background

In eukaryotic cells, the Golgi apparatus receives newly synthesized proteins from the endoplasmic reticulum (ER) and, after covalent modification, delivers them to their destination in the cell. For membrane-directed proteins this process is believed to be carried out via vesicular transport. Correct vesicular transport is determined by specific pairing of vesicle-associated SNAREs (v-SNAREs) with those on the target membrane (t-SNAREs). Unconventional SNARE in the ER 1, also known as USE1 or protein p31, is a 259 amino acid t-SNARE that forms a larger complex with ZW10, RINT-1 and Syntaxin 18. Upon Mg^{2+} -AP treatment in the presence of NSF and α -SNAP, ZW10, RINT-1 and USE1 dissociate from Syntaxin 18. USE1 is a single-pass type IV membrane protein that is localized to the endoplasmic reticulum membrane. Three named isoforms exist for USE1 as a result of alternative splicing events. SNARE that may be involved in targeting and fusion of Golgi-derived retrograde transport vesicles with the ER.

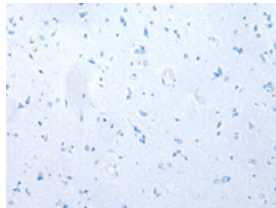
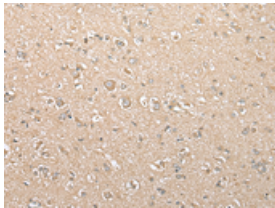
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human brain

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using ml223831(USE1 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Western blotting

Predicted band size: 29 kDa

Positive control: 293T cell

Recommended dilution: 200-1000

Gel: 12%SDS-PAGE

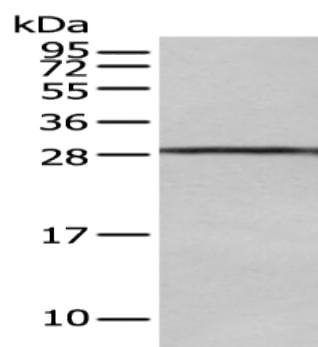
Lysate: 40 µg

Lane: 293T cell

Primary antibody: ml223831(USE1 Antibody) at dilution 1/250

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 10 seconds



ELISA

Recommended dilution: 5000-10000

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