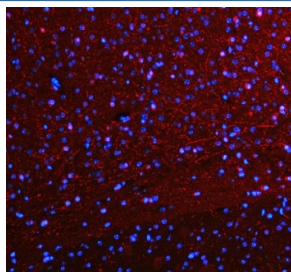


SERT Antibody / Serotonin Transporter / SLC6A4 (R32066)

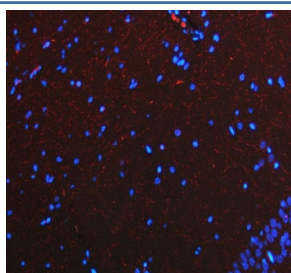
Catalog No.	Formulation	Size
R32066	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

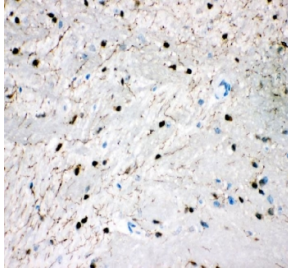
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P31645
Localization	Cell membrane
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This SERT antibody is available for research use only.



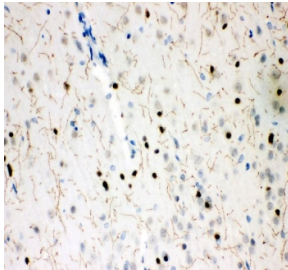
Immunofluorescent staining of FFPE mouse brain tissue with SERT antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



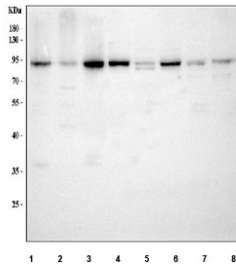
Immunofluorescent staining of FFPE rat brain tissue with SERT antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



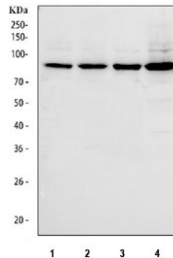
IHC staining of FFPE mouse brain tissue with SERT antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



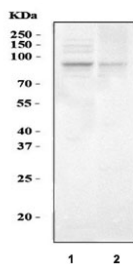
IHC staining of FFPE rat brain tissue with SERT antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human SH-SY5Y, 2) human U-2 OS, 3) human SW620, 4) human HeLa, 5) rat brain, 6) rat C6, 7) mouse brain and 8) mouse Neuro-2a cell lysate with SERT antibody. Expected molecular weight: ~70/85-95 kDa (unmodified/glycosylated).



Western blot testing of human 1) HepG2, 2) Caco-2, 3) A549 and 4) SH-SY5Y cell lysate with SERT antibody. Expected molecular weight: ~70/85-95 kDa (unmodified/glycosylated).



Western blot testing of 1) rat testis and 2) mouse testis tissue lysate with SERT antibody. Expected molecular weight: ~70/85-95 kDa (unmodified/glycosylated).

Description

SLC6A4 (Solute carrier family 6, member 4), also known as SERT (serotonin transporter), is a monoamine transporter protein. The SLC6A4 gene spans 31 kb and contains 14 exons. This protein integral membrane protein transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. This transport of serotonin by the SERT protein terminates the action of serotonin and recycles it in a sodium-dependent manner. This protein is the target of many antidepressant medications, including those of the SSRI class. It is a member of the sodium: neurotransmitter symporter family. A repeat length polymorphism in the promoter of this gene has been shown to affect the rate of serotonin uptake and may play a role in sudden infant death syndrome, aggressive behavior in Alzheimer disease

patients, post-traumatic stress disorder and depression-susceptibility in people experiencing emotional trauma.

Application Notes

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

Immunogen

Amino acids DDTRHSIPATTTTLVAELHQGERETWGKK of human SLC6A4/SERT were used as the immunogen for the SERT antibody.

Storage

After reconstitution, the SERT 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.

References (1)