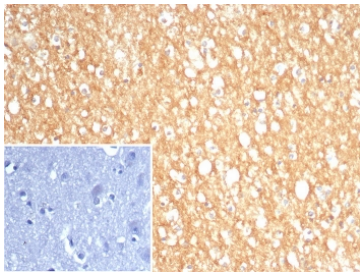
S100A5 Antibody / S100 calcium binding protein A5 [clone S100A5/7474] (V4728)

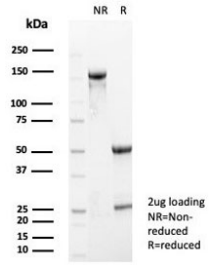
Catalog No.	Formulation	Size
V4728-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4728-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4728SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	S100A5/7474
Purity	Protein A/G affinity
UniProt	P33763
Localization	Nucleus, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This S100A5 antibody is available for research use only.



IHC staining of FFPE human brain tissue with S100A5 antibody (clone S100A5/7474). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free S100A5 antibody (clone S100A5/7474) as confirmation of integrity and purity.

Description

The S-100 proteins are small calcium-binding proteins which display different expression patterns in human tissues. Some S-100 proteins are associated with tumor development and the metastatic behavior of tumors. S-100A5 (S100 calcium binding protein A5) is a 92 amino acid protein that belongs to the S-100 family. Containing two EF-hand domains, S-100A5 binds calcium, zinc and copper. One subunit can simultaneously bind two calcium ions or two copper ions plus one zinc ion. Calcium and copper ions compete for the same binding sites on the S-100A5 protein. The S-100A5 protein is expressed in very restricted regions of the adult brain. The S-100A5 gene is conserved in chimpanzee, dog, cow, mouse and rat, and maps to human chromosome 1q21.3. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. Due to the clustered organization of the S-100 proteins a new logical nomenclature based on their physical arrangement on the chromosome has been described, with S-100A1 being closest to the telomere and S-100A9 being closest to the centromere.

Application Notes

Optimal dilution of the S100A5 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-92) from the human protein was used as the immunogen for the S100A5 antibody.

Storage

Aliquot the S100A5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.