

S100 Rabbit mAb

Catalog No: #49485

Package Size: #49485-1 50ul #49485-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

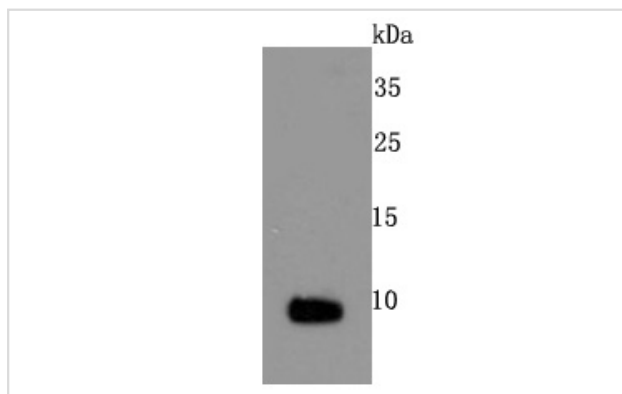
Description

Product Name	S100 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM51-31
Purification	ProA affinity purified
Applications	WB, IP, IHC, FC
Species Reactivity	Hu, Ms
Immunogen Description	recombinant protein
Other Names	NEF antibody Protein S100 B antibody Protein S100-B antibody S 100 calcium binding protein beta chain antibody S 100 protein beta chain antibody S-100 protein beta chain antibody S-100 protein subunit beta antibody S100 antibody S100 calcium binding protein beta (neural) antibody S100 calcium-binding protein B antibody S100 protein beta chain antibody S100B antibody S100B_HUMAN antibody S100beta antibody
Accession No.	Swiss-Prot#:P23297
Uniprot	P23297
GeneID	6271;
Calculated MW	11 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

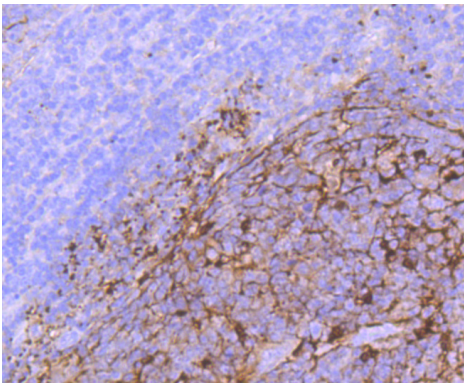
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 IP: 1:10-1:50FC: 1:50-1:100

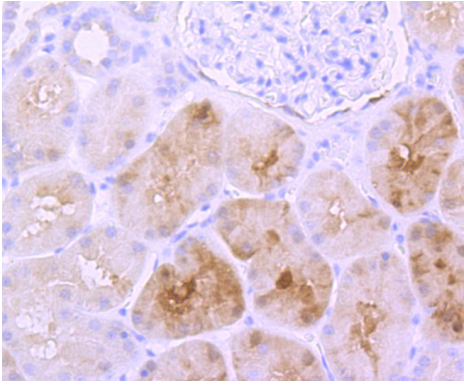
Images



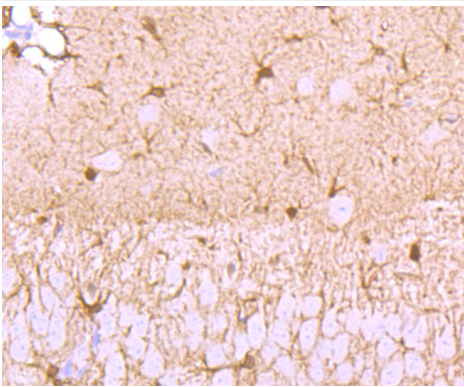
Western blot analysis of S100 on mouse heart cells lysates using anti-S100 antibody at 1/500 dilution.



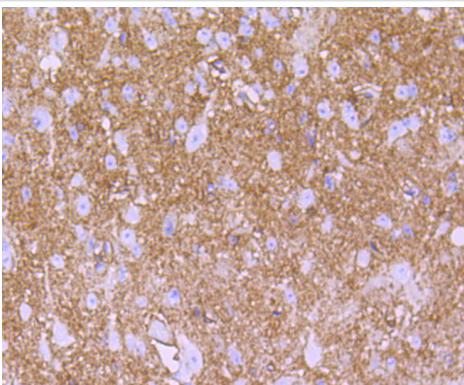
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti- S100 antibody. Counter stained with hematoxylin.



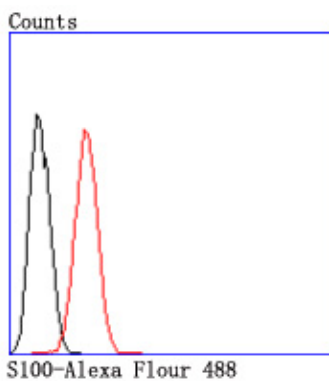
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti- S100 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti- S100 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse spinal cord tissue using anti-S100 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of SH-SY5Y cells with S100 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The family of EF-hand type Ca²⁺-binding proteins includes calbindin (previously designated vitamin D-dependent Ca²⁺-binding protein), S-100 α and β , calgranulins A (also designated MRP8), B (also designated MRP14) and C (S-100 like proteins), and the parvalbumin family members, including parvalbumin α and parvalbumin β (also designated oncomodulin). The S-100 protein is involved in the regulation of cellular processes such as cell cycle progression and differentiation. Research also indicates that the S-100 protein may function in the activation of Ca²⁺ induced Ca²⁺ release, inhibition of microtubule assembly and inhibition of protein kinase C mediated phosphorylation. Two S-100 subunits, sharing 60% sequence identity, have been described as S-100 α chain and S-100 β chain. Three S-100 dimeric forms have been characterized, differing in their subunit composition of either two α chains, two β chains or one α and one β chain. S-100 localizes to the cytoplasm and nuclei of astrocytes, Schwann's cells, ependymomas and astroglomas. S-100 is also detected in almost all benign naevi, malignant melanocytic tumours and in Langerhans cells in the skin. Calbindin, S-100 proteins and parvalbumin proteins are each expressed in neural tissues. In addition, S-100 α and β are present in a variety of other tissues, and calbindin is present in intestine and kidney.

References

Note: This product is for in vitro research use only