S100 antibody

Cat. No. GTX48819

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, IHC-P, ELISA
Reactivity	Human, Mouse, Rat, Bovine

References (1)
Package
100 µg

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
IHC-P	1:200-2000
ELISA	1:5000-1:25000

Not tested in other applications.

Properties

Form	Liquid
Buffer	20mM Potassium Phosphate, 150mM NaCl
Preservative	0.01% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	5 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Full length bovine S100 protein (mixture of aa homodimers and ab heterodimers).
Purification	Protein A purified From serum
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

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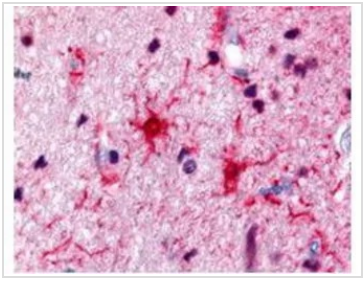
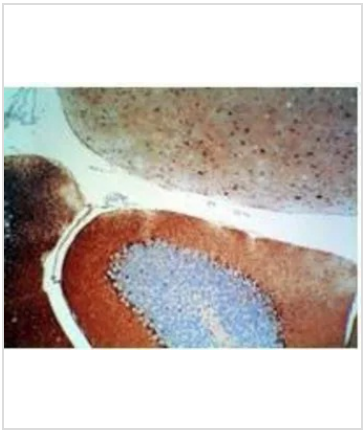
DATA IMAGES



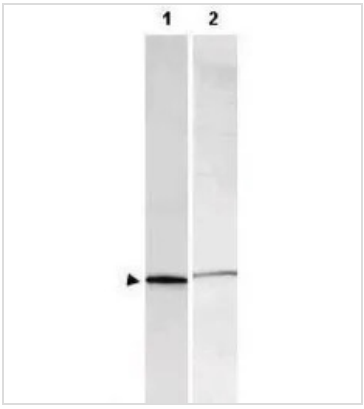
GTX48819 IHC-P Image

Rabbit anti-S100 was used at a 1:500 dilution to detect S100 by immunohistochemistry in human brain astrocyte tumor tissue. Tissue was formalin-fixed and paraffin embedded.



GTX48819 IHC-P Image

Rabbit anti-S-100 protein was used at a 1:500 dilution to detect S-100 by immunohistochemistry using a 2-step indirect method. Dark nuclear staining is observed within basket cells located near the Purkinje cells in the cerebellum. Mouse brain tissue was immersed for 24 hours in 10% neutral buffered formalin and paraffin processed followed by sectioning at 4 microns. No antigen unmasking (HIER) or protease digestion was performed prior to immunostaining. Sections were deparaffinized in xylene, and hydrated through graded alcohol to distilled water. All incubations were done at room temperature. All rinses were either distilled water or Tris-HCl with 0.05% Tween 20. Endogenous peroxidase activity was blocked with 3% Hydrogen peroxide for 10'. Primary antibody was diluted as stated and reacted for 30' followed by washes and the addition of donkey anti-rabbit HRP diluted 1:500 for 30'. DAB+ (Dakocytomation) was used as a substrate and was allowed to react for 5'.



GTX48819 WB Image

Western blot using GeneTex's Affinity Purified anti-S-100 antibody shows detection of a band ~11 kDa corresponding to bovine S-100 monomer (100 µg loaded, arrowhead lane 1). The antibody also detects S-100 from rat brain lysate (lane 2). Approximately 35 µg of a rat brain whole cell lysate was separated by 16% SDS-PAGE and transferred onto nitrocellulose. After blocking, the membrane was probed with the primary antibody diluted to 1:1,000 for 2h at room temperature followed by washes and reaction with a 1:10,000 dilution of IRDye™800 conjugated goat anti-Rabbit IgG [H&L] for 45 min at room temperature. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

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