

Product Datasheet

S100B Antibody (4C4.9)

NBP2-29403

Unit Size: 0.1 mg

Store at 4C.

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NBP2-29403

S100B Antibody (4C4.9)

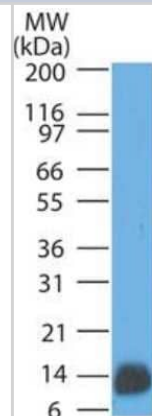
Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	4C4.9
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33168) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	6285
Gene Symbol	S100B
Species	Human, Mouse, Rat, Bovine
Marker	Astrocyte and Melanoma Marker
Specificity/Sensitivity	S100 belongs to the family of calcium binding proteins. S100A and S100B proteins are two members of the S100 family. S100A is composed of an alpha and a beta chain whereas S100B is composed of two beta chains. This antibody is specific against an epitope located on the beta-chain (i.e. in S-100A and S-100B) but not on the alpha-chain of S-100 (i.e. in S-100A and S100A0). This antibody can be used to localize S-100A and S-100B in various tissue sections. S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well-differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.
Immunogen	Purified bovine brain S100B protein (Uniprot: P04271)
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25-0.5 ug/ml

Application Notes

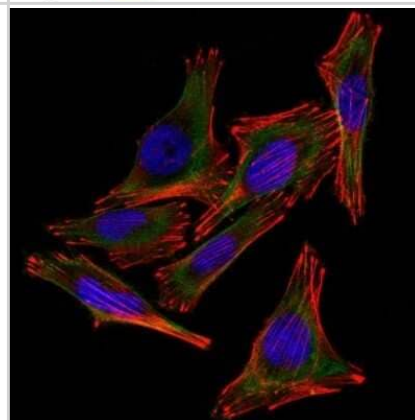
Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes.
Optimal dilution for a specific application should be determined.

Images

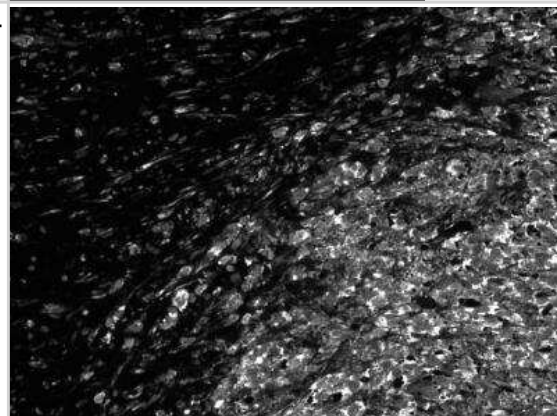
Western Blot: S100B Antibody (4C4.9) [NBP2-29403] - Analysis of human brain lysate using S100 antibody at 1 ug/ml.



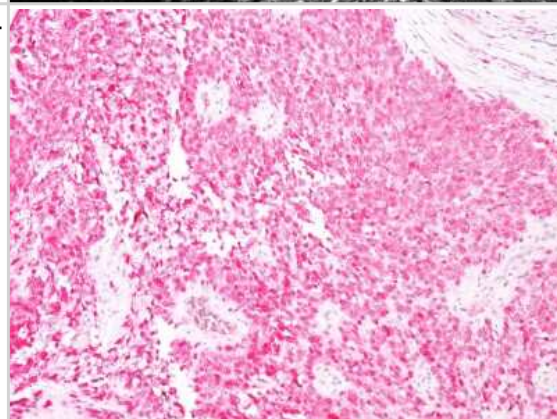
Immunocytochemistry/Immunofluorescence: S100B Antibody (4C4.9) [NBP2-29403] - Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled S100B Monoclonal Antibody (4C4.9) (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue).



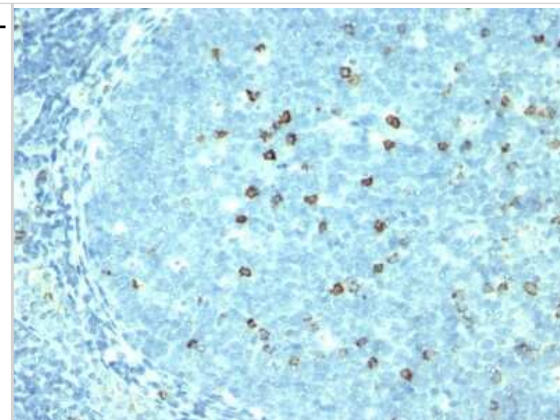
Immunohistochemistry-Paraffin: S100B Antibody (4C4.9) [NBP2-29403] - CODEX multiplexing image of S100b in primary melanoma of the skin. Image from verified customer review.



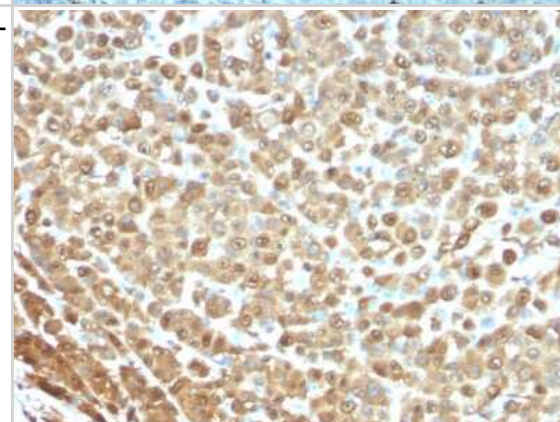
Immunohistochemistry-Paraffin: S100B Antibody (4C4.9) [NBP2-29403] - Formalin-fixed, paraffin-embedded human melanoma stained with S100B antibody(4C4.9).



Immunohistochemistry-Paraffin: S100B Antibody (4C4.9) [NBP2-29403] - Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled S100B Monoclonal antibody (4C4.9) (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry-Paraffin: S100B Antibody (4C4.9) [NBP2-29403] - Formalin-fixed, paraffin-embedded human Melanoma stained with S100B Antibody (4C4.9)



Publications

Keyang Xu, Ai Fu, Zhaoyi Li, Liangbin Miao, Zhonghan Lou, Keying Jiang, Condon Lau, Tao Su, Tiejun Tong, Jianfeng Bao, Aiping Lyu, Hiu Yee Kwan Elevated extracellular matrix protein 1 in circulating extracellular vesicles supports breast cancer progression under obesity conditions *Nature Communications* 2024-02-24 [PMID: 38402239]

LeBlanc L, Kim M, Kambhampati A Et al. beta-catenin links cell seeding density to global gene expression during mouse embryonic stem cell differentiation *iScience* 2021-12-01 [PMID: 34977504] (WB, Mouse)

Wang G, Li H, Cui X Et al. S100A1 is a Potential Biomarker for Papillary Thyroid Carcinoma Diagnosis and Prognosis *Journal of Cancer* 2021-09-01 [PMID: 34475990] (IHC-P, Human)

Du Z, Bondarenko O, Wang D et al. Ex Vivo Assay of Electrical Stimulation to Rat Sciatic Nerves: Cell Behaviors and Growth Factor Expression. *J. Cell. Physiol.* 2015-10-30 [PMID: 26516696] (IHC-P, Rat)

Matsumine H, Takeuchi Y, Sasaki R et al. Adipocyte-derived and dedifferentiated fat cells promoting facial nerve regeneration in a rat model. *Plast. Reconstr. Surg.* 2014-10-01 [PMID: 25357029] (IF/IHC, Rat)

Bikmaz K, Cosar M, Kurtkaya-Yapicier O et al. Recurrent solitary fibrous tumour in the cerebellopontine angle. *J Clin Neurosci.* 2005-09-01 [PMID: 16169731]

Details:

Refer to pages 829-832.



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-29403

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-35319-100ug	Recombinant Rhesus Macaque S100B Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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