

Product Datasheet

Calbindin 2 Antibody / CALB2 / Calretinin (orb2643945)

Description	It recognizes a protein of about 29kDa, which is identified as Calretinin (also known as Calbindin 2). Calretinin is a vitamin D-dependent calcium-binding protein involved in calcium signaling. It is present in subsets of neurons throughout the brain and spinal chord, including sensory ganglia. Antibody to calretinin is useful in differentiating mesothelioma from adenocarcinomas of the lung. It also aids in differentiating adrenal cortical neoplasms from pheochromocytomas.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P, WB
Immunogen	A portion of amino acids 23-242 from the human protein was used as the immunogen for the Calretinin antibody.
Preservatives	0.2 mg/ml with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the antibody should be determined by the researcher.
Formula	0.2 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	CALB2/2602

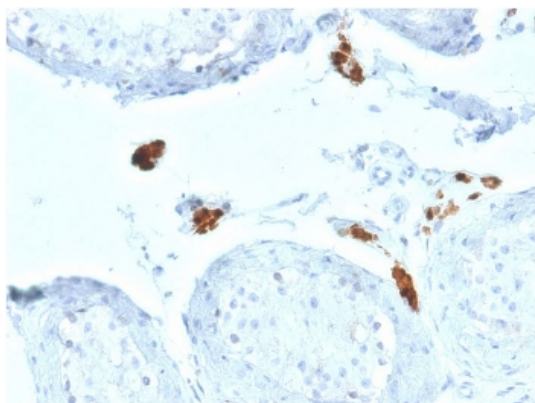
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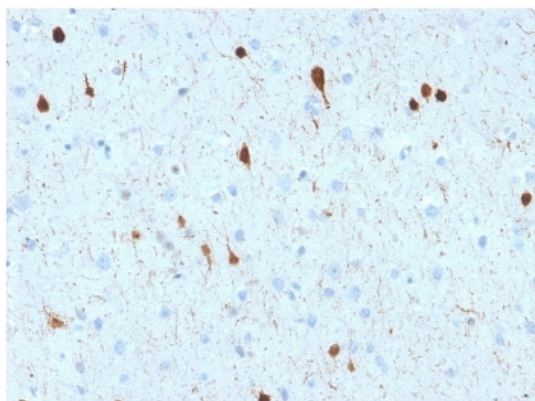
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Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P22676
Hazard Information	This CALB2 antibody is available for research use only.
Dilution Range	Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human testicular carcinoma with CALB2 antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



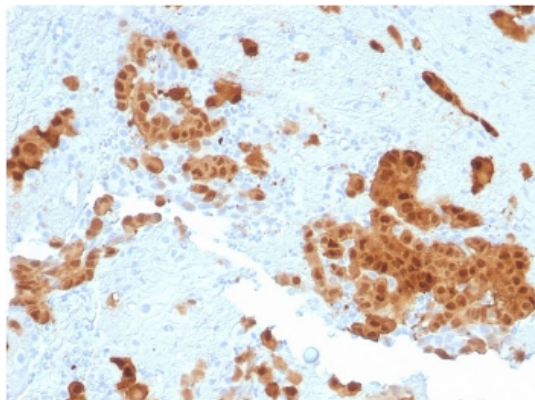
IHC testing of FFPE human cerebellum with CALB2 antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.

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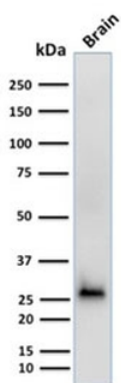
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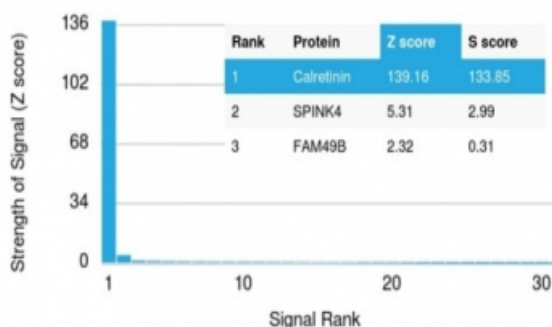


IHC testing of FFPE human mesothelioma with CALB2 antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human brain lysate with CALB2 antibody. Expected molecular weight ~29 kDa.

Human Protein Microarray Specificity Validation



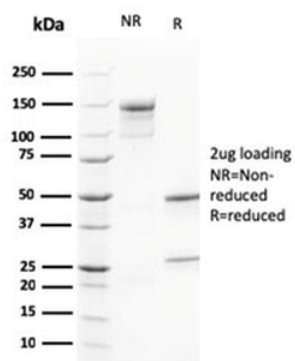
Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using CALB2 antibody (clone CALB2/2602). These results demonstrate the foremost specificity of the CALB2/2602 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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SDS-PAGE analysis of purified, BSA-free CALB2 antibody as confirmation of integrity and purity.

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