

Mouse anti-Human Calretinin/Calbindin 2 Monoclonal Antibody | anti-CALB2 antibody

Calretinin/Calbindin 2 (Mesothelioma Marker)

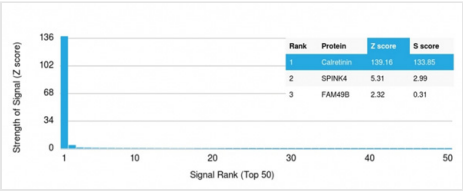
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23938	Mouse	Human	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

Calretinin/Calbindin 2; Monoclonal Antibody; Calretinin/Calbindin 2 (Mesothelioma Marker); 29kDa calbindin; CAB29; CAL2; CALB2; Calbindin 2; Calbindin D29K; Calretinin; CR; anti-CALB2 antibody

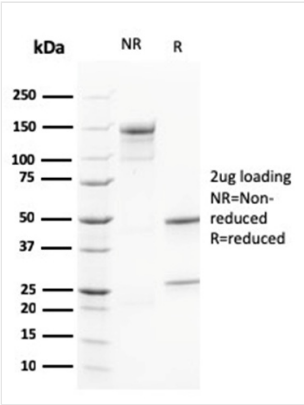
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CALB2/2602
Specificity	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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from rabbit anti-serum by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.
Sequence Length	87
Applicable Applications for anti-CALB2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	WB: 0.5-2ug/ml Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)
Positive Control	Brain, Testis or Mesothelioma.
Immunogen	Recombinant human Calretinin (Calbindin 2) protein fragment (around aa23-242) (exact sequence is proprietary)
Cellular Localization	Cytoplasmic and Nuclear
Hu-chromosome Location	16q22.2
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



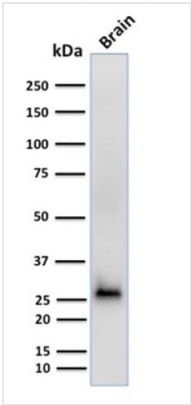
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Calretinin Mouse Monoclonal Antibody (CALB2/2602). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



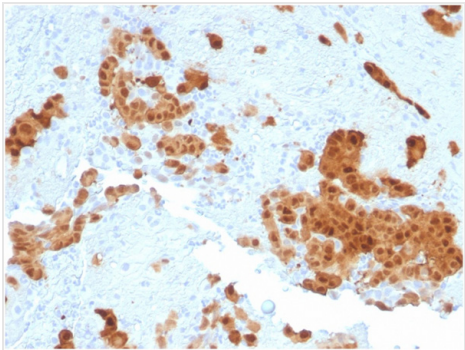
SDS-PAGE

SDS-PAGE Analysis Purified Calretinin Mouse Monoclonal Antibody (CALB2/2602). Confirmation of Purity and Integrity of Antibody



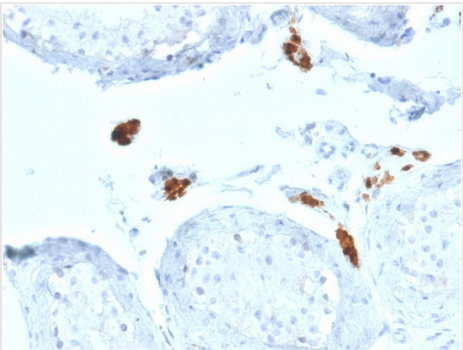
WB (Western Blot)

Western Blot Analysis of human Brain tissue lysate using Calretinin Mouse Monoclonal Antibody (CALB2/2602).



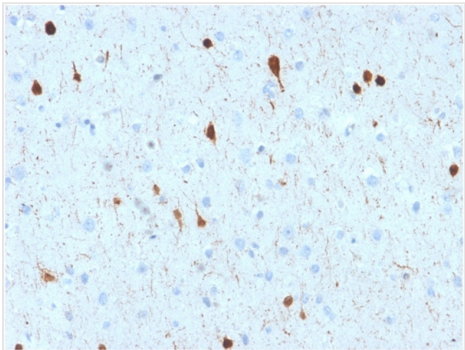
IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Mesothelioma stained with Calretinin Mouse Monoclonal Antibody (CALB2/2602).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with Calretinin Mouse Monoclonal Antibody (CALB2/2602).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Cerebellum stained with Calretinin Mouse Monoclonal Antibody (CALB2/2602).

ADDITIONAL INFORMATION

References

1. Doglioni, C., et al. 1996. Am. J. Surg. Pathol. 20: 1037-1046. 2. Rogers, J.H. 1987. J. Cell Biol. 105: 1343-1353.

NCBI AND UNIPROT INFORMATION

NCBI GI #

825634

NCBI GeneID	794
UniProt Accession #	P22676
Molecular Weight	29kDa
NCBI Official Full Name	calretinin, partial
NCBI Official Synonym Full Names	calbindin 2
NCBI Official Symbol	CALB2
NCBI Official Synonym Symbols	CR; CAL2; CAB29
NCBI Protein Information	calretinin
UniProt Protein Name	Calretinin
UniProt Gene Name	CALB2
UniProt Synonym Gene Names	CAB29; CR
UniProt Entry Name	CALB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/calretinin-calbindin-2-antibody-clone-calb2-2602-western-blot-immunohistochemistry-elisa/23938>