



Rabbit Anti-Calretinin antibody

SL0062R

Product Name:	Calretinin
Chinese Name:	钙结合蛋白抗体
Alias:	29 kDa calbindin; CAB 29; CAB29; CAL 2; CAL2; CALB 2; CALB2; Calbindin 2 29kDa; Calbindin 2; Calbindin D29K; Calbindin2; CR; CALB2_HUMAN; Calretinin.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	29kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Calretinin:211-271/271
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Calretinin is a calcium-binding protein which is abundant in auditory neurons. It belongs to the calbindin family. Calbindin 2 (calretinin), closely related to calbindin 1, is an intracellular calcium-binding protein belonging to the troponin C superfamily. Calbindin 1 is known to be involved in the vitamin-D-dependent calcium absorption through intestinal and renal epithelia, while the function of neuronal calbindin 1 and calbindin2 is poorly understood. The sequence of the calbindin 2 cDNA reveals an open reading

frame of 271 codons coding for a protein of 31,520 Da, and shares 58% identical residues with human calbindin1.

Function:

Calretinin is a calcium-binding protein which is abundant in auditory neurons.

Tissue Specificity:

Brain.

Similarity:

Belongs to the calbindin family.

Contains 6 EF-hand domains.

SWISS:

P22676

Gene ID:

794

Database links:

[Entrez Gene: 396255](#) Chicken

[Entrez Gene: 794](#) Human

[Entrez Gene: 12308](#) Mouse

[Entrez Gene: 117059](#) Rat

[Entrez Gene: 393684](#) Zebrafish

[Omim: 114051](#) Human

[SwissProt: P07090](#) Chicken

[SwissProt: P22676](#) Human

[SwissProt: Q08331](#) Mouse

[SwissProt: P47728](#) Rat

[Unigene: 106857](#) Human

[Unigene: 2755](#) Mouse

[Unigene: 10321](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

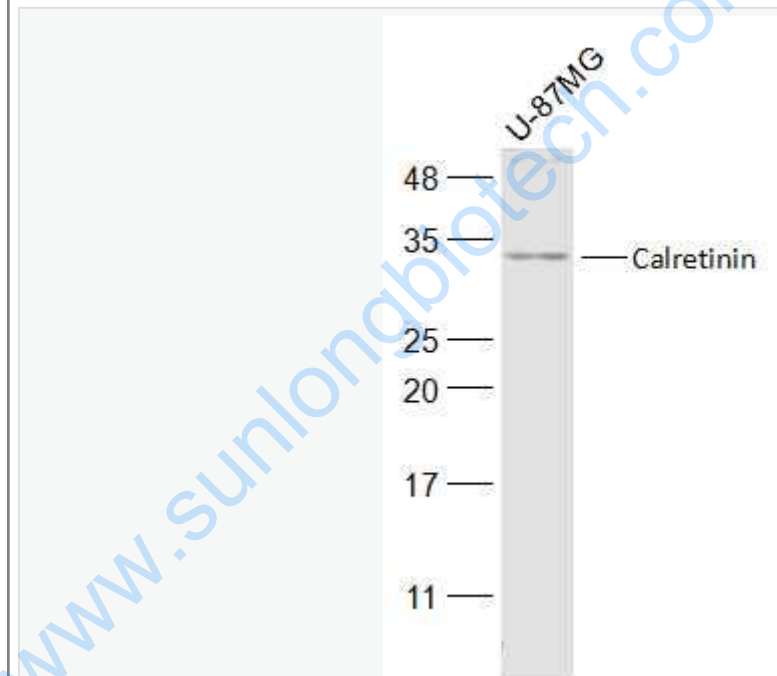
钙Binding

protein(Calretinin,CR)主要存在于神经组织中, 近10%的腺癌可以表达此蛋白的局部染色阳性, 而绝大多数的间皮瘤为阳性表达, 因此它是诊断间皮瘤的一个有用的标记物。

钙Binding

protein是平滑肌和非肌性调控蛋白。它可以与肌动蛋白、肌球蛋白、原肌球蛋白和钙调素相互作用。

Picture:



Sample:

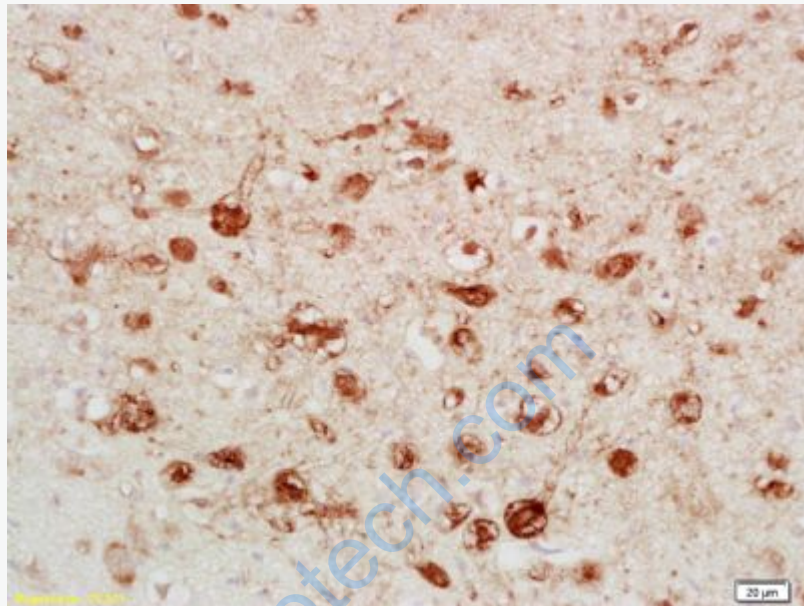
U-87MG(Human) Cell Lysate at 30 ug

Primary: Anti-Calretinin (SL0062R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 29 kD

Observed band size: 29 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Calretinin/CA Polyclonal Antibody, Unconjugated(SL0062R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining