



Rabbit Anti-Calbindin antibody

SL3758R

Product Name:	Calbindin
Chinese Name:	钙Binding proteinD28K抗体
Alias:	CAB27; CALB 1; CALB; CALB1; Calbindin 1 28kDa; Calbindin-D-28K; Calbindin D28; D 28K; D28K; Vitamin D dependent calcium binding protein; Vitamin D dependent calcium binding protein avian type; Vitamin D dependent calcium binding protein avian-type; Vitamin D-dependent calcium-binding protein; CALB1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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 Calbindin D28k:101-200/261
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:	Calbindin is a calcium-binding protein belonging to the troponin C superfamily. It was originally described as a 27-kD protein induced by vitamin D in the duodenum of the chick. In the brain, its synthesis is independent of vitamin-D-derived hormones. Calbindin contains 4 active calcium-binding domains, and 2 modified domains that

presumably have lost their calcium-binding capacity. The neurons in brains of patients with Huntington disease are calbindin-depleted. [provided by RefSeq, Jul 2008]

Function:

Buffers cytosolic calcium. May stimulate a membrane Ca(2+)-ATPase and a 3',5'-cyclic nucleotide phosphodiesterase.

Subunit:

Interacts with RANBP9.

Similarity:

Belongs to the calbindin family.
Contains 5 EF-hand domains.

SWISS:

P05937

Gene ID:

793

Database links:

[Entrez Gene: 793](#)Human

[Entrez Gene: 12307](#)Mouse

[Entrez Gene: 83839](#)Rat

[Omim: 114050](#)Human

[SwissProt: P05937](#)Human

[SwissProt: P12658](#)Mouse

[SwissProt: P07171](#)Rat

[Unigene: 65425](#)Human

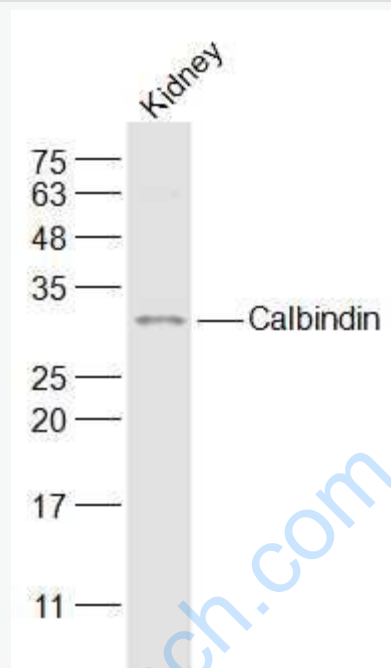
[Unigene: 277665](#)Mouse

[Unigene: 3908](#)Rat

Important Note:

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

Picture:



Sample:

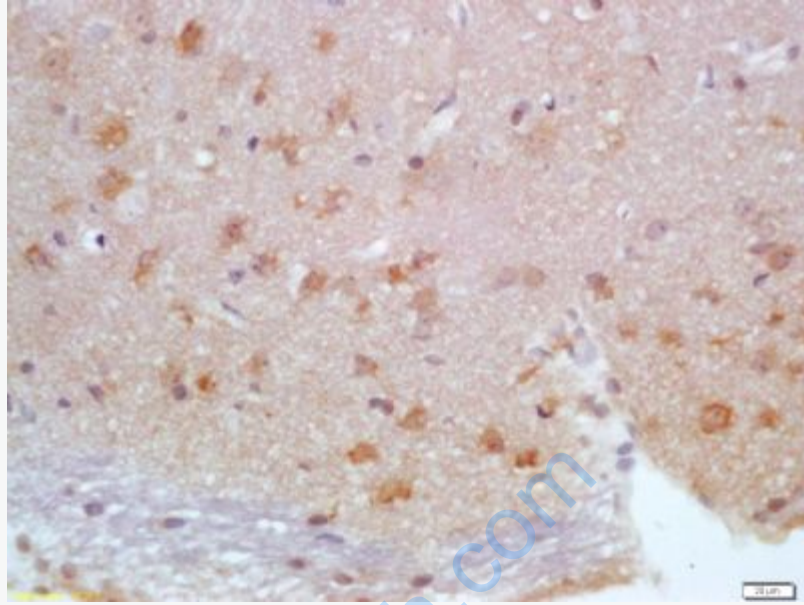
Kidney(Rat) Lysate at 40 ug

Primary: Anti-Calbindin (SL3758R) at 1/1000 dilution

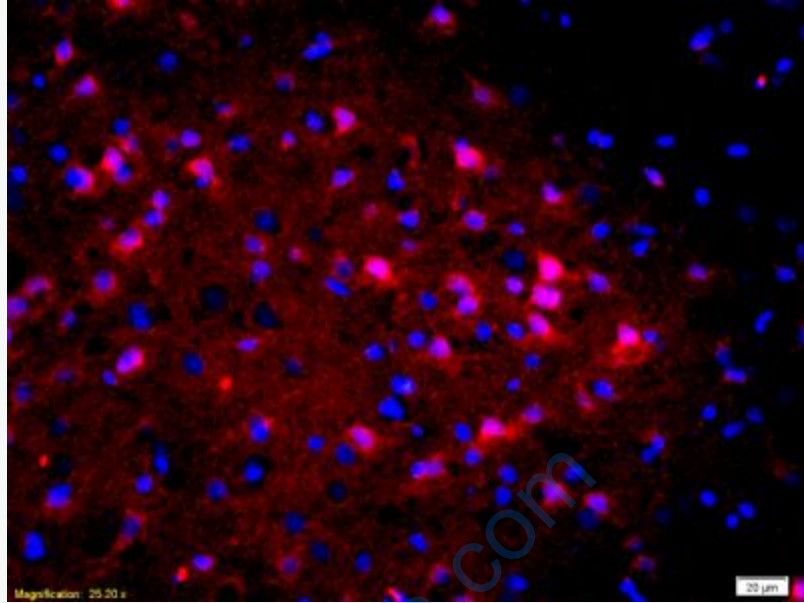
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 29 kD

Observed band size: 30kD



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-Calbindin/Calbindin D28k Polyclonal Antibody, Unconjugated(SL3758R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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Incubation: Anti-Calbindin/Calbindin D28k Polyclonal Antibody,
Unconjugated(SL3758R) 1:200, overnight at 4°C; The secondary antibody was Goat
Anti-Rabbit IgG, Cy3 conjugated (SL3758R)used at 1:200 dilution for 40 minutes at
37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei