

## Anti-Calbindin Antibody (5F708)

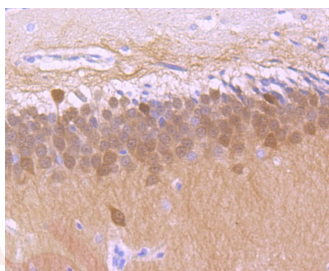
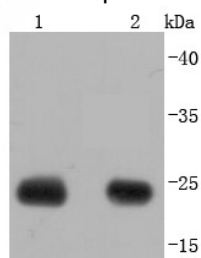
### Product Details

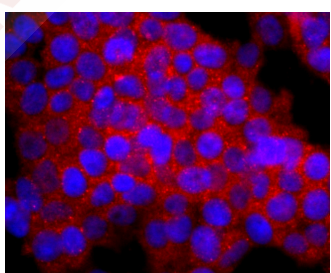
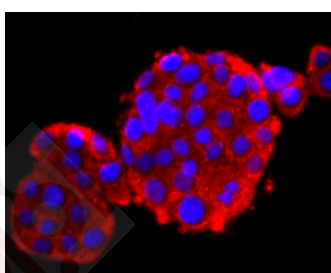
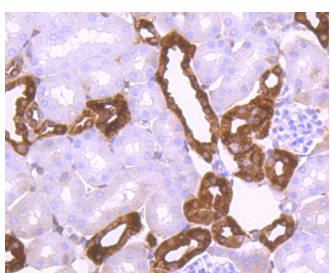
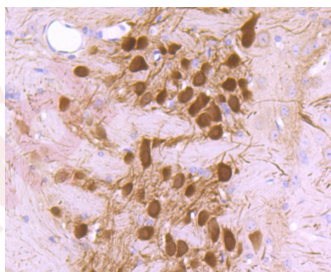
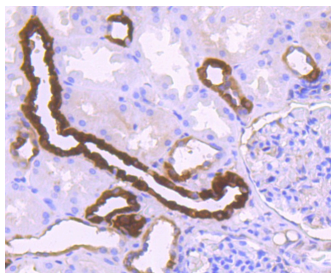
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 28 kDa.
Clone:	5F708
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of Calbindin on different lysates using anti-Calbindin antibody at 1/1,000 dilution. Positive control: Lane 1: Rat brain, Lane 2: Mouse kidney.
2. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Calbindin antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Calbindin antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Calbindin antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Calbindin antibody. Counter stained with hematoxylin.
6. ICC staining Calbindin in PC-12 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining Calbindin in 293T cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P05937
Synonyms:	Vitamin D-dependent calcium-binding protein, avian-type;Calbindin;D-28K;CALB1;Calbindin D28;CAB27

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### Research Background

The family of EF-hand type Ca<sup>2+</sup>-binding proteins includes Calbindin D28K, Calbindin D9K, S-100  $\alpha$  and  $\beta$ , Calgranulin A (also designated MRP8), Calgranulin B (also designated MRP14), Calgranulin C and the Parvalbumin family members, including Parvalbumin  $\alpha$  and Parvalbumin  $\beta$  (also designated oncomodulin). Calbindin D28K, also known as calbindin, CALB1, D-28K or vitamin D-dependent calcium-binding protein, is a 261 amino acid protein with six EF-hand domains, four of which are active calcium-binding domains. Expressed in brain, ovary, uterus, testis, pancreas, liver, kidney and intestine, Calbindin D28K acts as a calcium-buffering agent and alters the activity of the plasma membrane ATPase. In neuronal cells, Calbindin D28K modulates calcium channel activity, calcium transients and intrinsic neuronal firing activity. Also, Calbindin D28K has been implicated to play a role in apoptosis and microtubule function.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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