

34-1020: Polyclonal Antibody to Calbindin

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	CALB1
Gene ID :	793
Uniprot ID :	P05937
Format :	Conc. IgY prep.
Alternative Name :	Calbindin D28,D-28K,Vitamin D-dependent calcium-binding protein, avian-type
Isotype :	Chicken, IgY
Immunogen Information :	Full-length recombinant human protein

Product Info

Amount :	50 µl / 100 µl
Content :	Antibody is supplied as an IgY prep at 10 mg/ml
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:5,000. IF/ICC or IHC: 1:1,000-1:5,000.

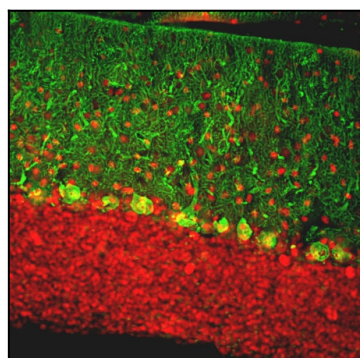


Figure-1: Immunofluorescent analysis of rat cerebellum section stained with chicken pAb to calbindin,(34-1020), dilution 1:2,000, in green, and costained with rabbit pAb to MeCP2,(34-1063), dilution 1:5,000, in red. Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with above antibodies. Calbindin, often used as a Purkinje cell marker, is prominently detected in dendrites and perikarya of these cells in the cerebellar molecular layer. The MeCP2 antibody selectively stains nuclei of neuronal cells.

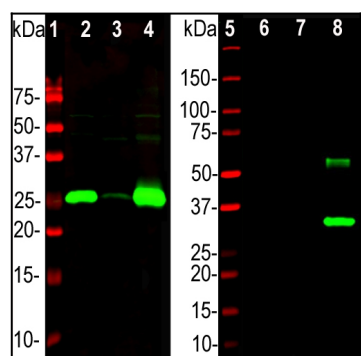


Figure-2: Western blot analysis of different tissue lysates and recombinant protein solutions using chicken pAb to calbindin,(34-1020), dilution 1:5,000 in green: [1] protein standard (red), [2] rat cerebellum, [3] pig hippocampus, [4] cow cerebellum, [5] protein standard (red). Next lanes are full length recombinant human proteins, [6] parvalbumin, [7] calretinin, [8] calbindin. Bands at ~25kDa in tissue lysates and ~30 kDa in protein solutions correspond to native calbindin, the recombinant forms of calbindin, caretinin and parvalbumin being slightly larger due to the presence of a His tag and other vector derived sequence. The (34-1020) antibody specifically recognizes calbindin protein and does not react with the closely related proteins parvalbumin and calretinin.