

34-1020: Polyclonal Antibody to Calbindin

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|--------------------------------|---|
| Clonality : | Polyclonal |
| Application : | WB, IF/ICC, IHC |
| Reactivity : | Human, Cow, Rat, Mouse |
| Gene : | CALB1 |
| Gene ID : | 793 |
| Uniprot ID : | P05937 |
| Format : | Conc. IgY prep. |
| Alternative Name : | Calbindin D28K, Vitamin D-dependent calcium-binding protein, avian-type |
| Isotype : | Chicken, IgY |
| Immunogen Information : | Full-length recombinant human protein |

Product Info

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| 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.

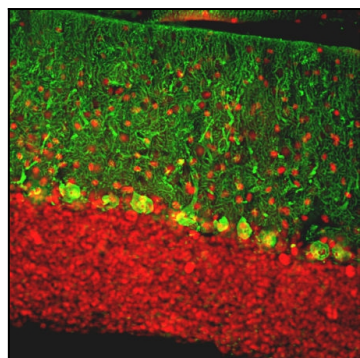


Figure-1: Immunofluorescent analysis of rat cerebellum section stained with chicken pAb to calbindin, (34-1020), dilution 1:2,000, in green, and costained with rabbit pAb to MeCP2, (34-1063), dilution 1:5,000, in red. Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 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.

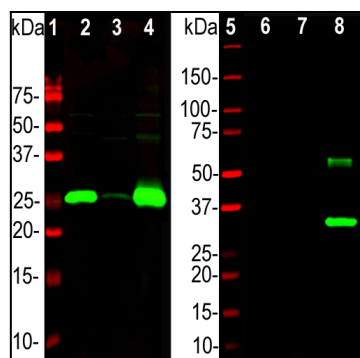


Figure-2: Western blot analysis of different tissue lysates and recombinant protein solutions using chicken pAb to calbindin, (34-1020), dilution 1:5,000 in green: [1] protein standard (red), [2] rat cerebellum, [3] pig hippocampus, [4] cow cerebellum, [5] protein standard (red). Next lanes are full 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, calretinin 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.