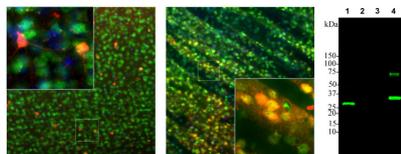


Chicken antibody to human calbindin: IgY

Catalogue No.:	C-1798-50
Description:	Buffers cytosolic calcium. May stimulate a membrane Ca ²⁺ -ATPase and a cyclic nucleotide phosphodiesterase. Ref: uniprot.org
Batch No.:	See product label.
Unit size:	50 uL
Antigen:	Full-length recombinant human protein
Other Names:	Calbindin D28; D-28K; Vitamin D-dependent calcium-binding protein, avian-type
Accession:	P05937 (CALB1_HUMAN)
Produced in:	Chicken
Purity:	IgY fraction
Applications:	Western blotting (1:1,000-1:5,000) and Immunohistochemistry (1:1,000-1:5,000). Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Reacts with human, cow, rat, mouse. Antibody is specific for calbindin and does not recognize closely related proteins parvalbumin and calretinin as determined by Western Blotting.
Form:	Lyophilised from a solution containing PBS buffer pH 7.2-7.6, without preservatives.
Reconstitution:	Spin vial briefly before opening. Reconstitute in 50 uL sterile water. Centrifuge to remove any insoluble material. Final buffer contains no preservatives.
Storage:	Store lyophilised antibody at 2-8C. After reconstitution divide into aliquots and store at -20C for long-term storage. Store at 2-8C short-term (up to 4 weeks) with an appropriate antibacterial agent. Avoid repetitive freeze/thaw cycles.
Expiry Date:	12 months after purchase if unopened.



Left and Middle: Detection of calbindin-immunoreactivity (red) in adult rat brain cortex (Left) and striatum (Middle) by Immunohistochemistry. The calbindin antibody (1:1,000) labels a subset of sparsely-distributed interneurons (calbindin-positive interneurons) in the cortex (Left), and more densely-distributed neurons in the striatum (Middle). Since neurons also express Fox3/NeuN (M-377-100, green), calbindin-positive cells appear yellow. Insets are high magnification images of boxed area of each image. Blue: DAPI nuclear stain. IHC method: 45 um sections, fixed by transcardial perfusion with 4% paraformaldehyde. Right: Western blot analysis of calbindin expression in rat brain homogenate (Lane 1). The antibody (1:5,000) detects one single band at ~30 kDa. Specificity for calbindin is shown by probing related His-tagged calcium-binding proteins (Lane 2: Parvalbumin; Lane 3: Calretinin; Lane 4: Calbindin; 0.5 ug protein per lane). One additional band at ~60 kDa (Lane 4) most likely represents calbindin protein dimer.

FOR RESEARCH USE ONLY