

Product Datasheet

Calretinin Antibody NBP2-50029

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-50029

Calretinin Antibody

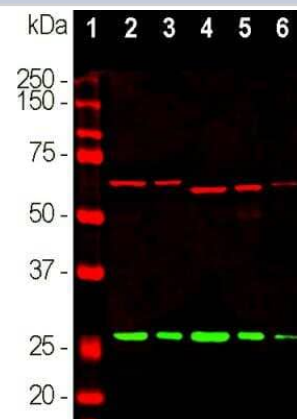
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.035% Sodium Azide
Isotype	IgY
Purity	IgY purified
Buffer	Supplied as a concentrated total IgY preparation from egg yolk, dialyzed against PBS with added preservative.
Target Molecular Weight	29 kDa

Product Description	
Description	<p>This antibody is supplied as a concentrated total IgY preparation derived from egg yolk. Production involves an initial organic extraction to remove lipids and lipoproteins, followed by salt fractionation of the aqueous phase to precipitate and enrich the IgY fraction. The material is then extensively dialyzed against PBS, and preservative is added during final formulation.</p> <p>Please note that the exact concentration of target-specific IgY cannot be determined, as the final preparation contains both antigen-specific IgY and non-immune IgY.</p>
Host	Chicken
Gene ID	794
Gene Symbol	CALB2
Species	Human, Mouse, Rat, Porcine, Bovine, Equine
Specificity/Sensitivity	This antibody does not cross-react with the related calcium binding proteins Calbindin D-28K and Parvalbumin.
Immunogen	Recombinant full length human Calretinin. [UniProt# P22676]
Notes	Chicken products cannot be exported to Canada.

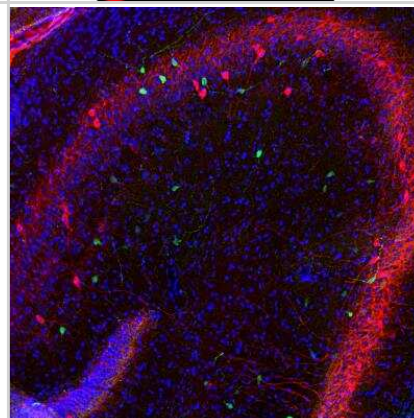
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:1000 - 1:5000, Immunohistochemistry 1:1000-1:5000, Immunocytochemistry/ Immunofluorescence 1:1000 - 1:5000, Immunohistochemistry Free-Floating
Application Notes	In Western blot, this antibody recognizes a clear band at ~29 kDa in rat brain lysates and it reacts only with Calretinin protein, and not other calcium-binding proteins.

Images

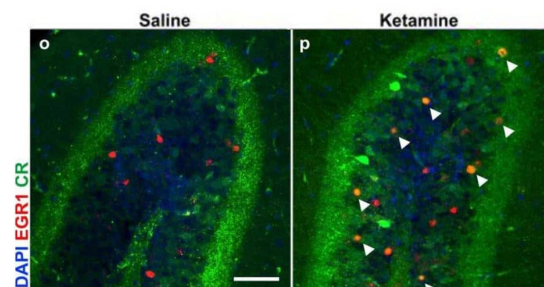
Western Blot: Calretinin Antibody [NBP2-50029] - Western blot analysis of different tissue lysates using chicken pAb to calretinin, NBP2-50029, dilution 1:1,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, and [6] cow spinal cord. A band at 29kDa corresponds to calretinin protein. The same blot was simultaneously probed with mouse mAb to alpha-nternexin, dilution 1:10,000 in red that reveals the alpha-interneixin protein with apparent molecular weight of 66kDa.



Immunohistochemistry Free-Floating: Calretinin Antibody [NBP2-50029] - Analysis of rat hippocampus section stained with chicken pAb to calretinin, NBP2-50029, dilution 1:1,000 in green, and costained with mouse mAb to parvalbumin, 1:1,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free-floating sections were stained with the above antibodies. The calretinin and parvalbumin antibodies label different classes of interneurons.



Immunohistochemistry: Calretinin Antibody [NBP2-50029] - Ketamine treatment increases the activity of immature DG neurons. Representative IHC staining of EGR1+ (red) and Calretinin (CR)+ (green) cells in the DG. White arrows depict example double-positive cells. Scale bars 50 m. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/35551462/](https://pubmed.ncbi.nlm.nih.gov/35551462/)) licensed under a CC-BY license.



Publications

Rawat R, Tunc-Ozcan E, McGuire TL et al. Ketamine activates adult-born immature granule neurons to rapidly alleviate depression-like behaviors in mice *Nature communications* 2022-05-12 [PMID: 35551462] (IF/IHC, Mouse)



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Products Related to NBP2-50029

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
BAF010	Goat anti-Chicken IgY Secondary Antibody [Biotin]
NB7276	Goat anti-Chicken IgM Heavy Chain Secondary Antibody
NBP1-48344-0.1mg	Recombinant Human Calretinin His Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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