

ARG10680 anti-Calretinin antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Chicken Polyclonal antibody recognizes Calretinin
Tested Reactivity	Hu, Ms, Rat, Cow
Tested Application	ICC/IF, IHC-Fr, WB
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Target Name	Calretinin
Species	Human
Immunogen	Full-length recombinant Human Calretinin protein.
Conjugation	Un-conjugated
Alternate Names	CAB29; CR; CAL2; 29 kDa calbindin; Calretinin

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:1000 - 1:5000
	IHC-Fr	1:1000 - 1:5000
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

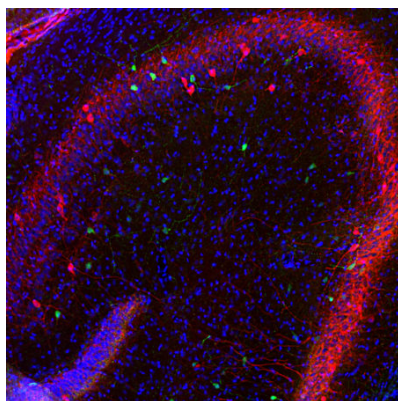
Form	Liquid
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CALB2
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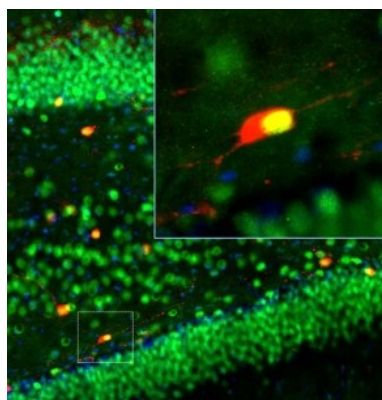
Gene Full Name	calbindin 2
Background	This gene encodes an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium. This protein plays a role in diverse cellular functions, including message targeting and intracellular calcium buffering. It also functions as a modulator of neuronal excitability, and is a diagnostic marker for some human diseases, including Hirschsprung disease and some cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]
Function	Calretinin is a calcium-binding protein which is abundant in auditory neurons. [UniProt]
Calculated Mw	32 kDa

Images



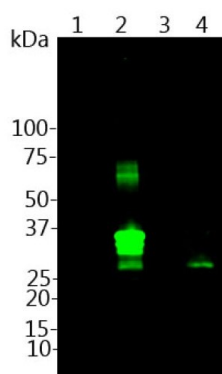
ARG10680 anti-Calretinin antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat hippocampus stained with ARG10680 anti-Calretinin antibody (green) at 1:1000 dilution and costained with [ARG10725](#) anti-Parvalbumin antibody [3C9] (red) at 1:1000 dilution. (Sample preparation: Following transcardial perfusion of Rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with the above antibodies.)



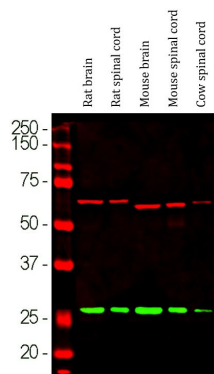
ARG10680 anti-Calretinin antibody IHC-Fr image

Immunohistochemistry: Frozen sections of adult Rat brain hippocampus (45 μ M; fixed by transcardial perfusion with 4% paraformaldehyde) was stained with ARG10680 anti-Calretinin antibody at 1:1000 (red), and co-stained with our rabbit anti-MeCP2 antibody (green). Calretinin labels a subset of hippocampal interneurons, which also express MeCP2 in the nucleus to give a yellow color.



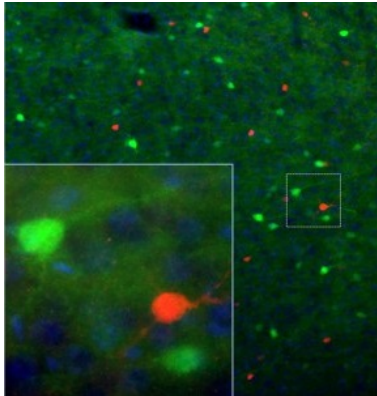
ARG10680 anti-Calretinin antibody WB image

Western blot: 1) parvalbumin, 2) calretinin, 3) calbindin recombinant proteins, and 4) Rat brain lysates was stained with ARG10680 anti-Calretinin antibody at 1:1000 dilution.



ARG10680 anti-Calretinin antibody WB image

Western blot: Rat brain, Rat spinal cord, Mouse brain, Mouse spinal cord and Cow spinal cord lysates stained with ARG10680 anti-Calretinin antibody (green) at 1:1000 dilution. The same blot was simultaneously stained with Mouse mAb to alpha-nternexin (red) at 1:10000 dilution.



ARG10680 anti-Calretinin antibody IHC-Fr image

Immunohistochemistry: Frozen sections of adult Rat cortex was stained with ARG10680 anti-Calretinin antibody (red) and co-stained with Mouse anti-calbindin antibody (green). Each antibody specifically labels a subset of interneurons (i.e., calretinin-positive or calbindin-positive) that express each marker exclusively. Inset is a high-magnification image of the boxed area. Blue is DAPI staining that labels DNA.