

ARG10703 anti-Calretinin antibody [6A9]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [6A9] recognizes Calretinin
Tested Reactivity	Hu, Ms, Rat, Cow
Tested Application	ICC/IF, IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	6A9
Isotype	IgA
Target Name	Calretinin
Species	Human
Immunogen	Full-length recombinant Human protein.
Conjugation	Un-conjugated
Alternate Names	CAB29; CR; CAL2; 29 kDa calbindin; Calretinin

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:2000 - 1:5000
	IHC-Fr	1:2000 - 1:5000
	WB	1:2000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

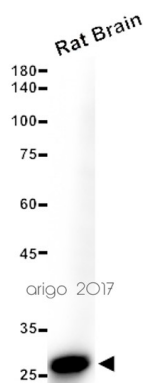
Properties

Form	Liquid
Purification	Affinity purification.
Buffer	PBS, 5 mM Sodium azide and 50% Glycerol.
Preservative	5 mM Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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. 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.

Bioinformation

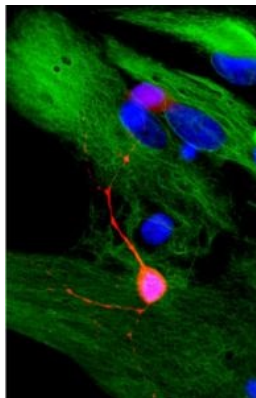
Gene Symbol	CALB2
Gene Full Name	calbindin 2
Background	This gene encodes an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium. This protein plays a role in diverse cellular functions, including message 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



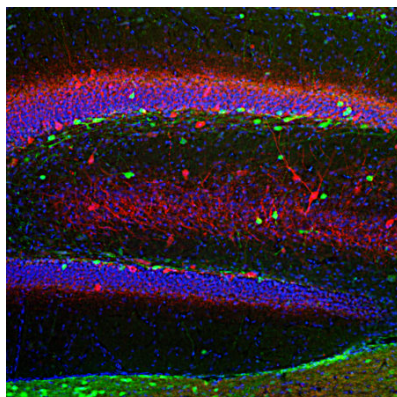
ARG10703 anti-Calretinin antibody [6A9] WB image

Western blot: 15 µg of Rat brain lysate stained with ARG10703 anti-Calretinin antibody [6A9] at 1:2500 dilution.



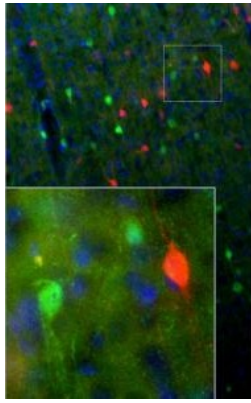
ARG10703 anti-Calretinin antibody [6A9] ICC/IF image

Immunocytochemistry: Rat mixed neuron / glial cultures stained with ARG10703 anti-Calretinin antibody [6A9] (red) at 1:2000, and co-stained with chicken polyclonal antibody to Vimentin (green). Calretinin is prominently expressed in small number of interneurons, while astrocytes and fibroblasts were visualized with the vimentin antibody.



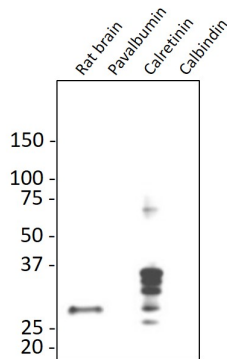
ARG10703 anti-Calretinin antibody [6A9] IHC-Fr image

Immunohistochemistry: Frozen section of Rat hippocampus stained with ARG10703 anti-Calretinin antibody [6A9] (green) at 1:2000 dilution and costained with [ARG10686](#) anti-Parvalbumin antibody (red) at 1:1000 dilution. DAPI (blue) for nuclear staining. (Sample preparation: Following transcardial perfusion of Rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 µM, and free-floating sections were stained with above antibodies.)



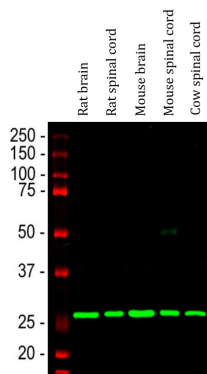
ARG10703 anti-Calretinin antibody [6A9] IHC-Fr image

Immunohistochemistry: Frozen sections of adult Rat cortical (45 μ M; fixed by transcardial perfusion with 4% paraformaldehyde) was stained with ARG10703 anti-Calretinin antibody [6A9] at 1:1000 (red) and co-stained with chicken polyclonal antibody to calbindin (green). In the motor cortex, calretinin is expressed in a small population of interneurons that do not express calbindin. Because each antibody specifically labels a different population of cells exclusively, the cells are either stained with red, or green.



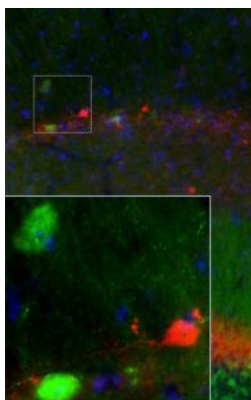
ARG10703 anti-Calretinin antibody [6A9] WB image

Western blot: Rat brain, pvalbumin, calretinin, and calbindin recombinant proteins was stained with ARG10703 anti-Calretinin antibody [6A9] at 1:5000 dilution.



ARG10703 anti-Calretinin antibody [6A9] WB image

Western blot: Rat brain, Rat spinal cord, Mouse brain, Mouse spinal cord and Cow spinal cord lysates stained with ARG10703 anti-Calretinin antibody [6A9] (green) at 1:2000 dilution.



ARG10703 anti-Calretinin antibody [6A9] IHC-Fr image

Immunohistochemistry: Frozen sections of adult Mouse brain hippocampal (45 μ M; fixed by transcardial perfusion with 4% paraformaldehyde) was stained with ARG10703 anti-Calretinin antibody [6A9] at 1:1000 (red) and co-stained with antibody to calbindin (green). In the stratum radiatum of CA1 region, calretinin expresses in a small number of interneurons that do not express calbindin. As a result, our antibodies label different neurons in either red or green. Insets are high-magnification images of the boxed area in each picture. Blue is a hoechst DNA staining.