
Product Name: KD-Validated Contactin Associated Protein 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01069**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 156.3kDa

Antigen Information

Gene Name	CNTNAP1
Alternative Names	CNTNAP1; Contactin Associated Protein 1; P190; CNTNAP; CASPR; NRXN4; Contactin-Associated Protein 1; Neurexin IV; Neurexin-4; Caspr1; Caspr; Neurexin 4; CHN3
Gene ID	8506.0
SwissProt ID	P78357
Immunogen	A synthesized peptide derived from human Caspr

Background

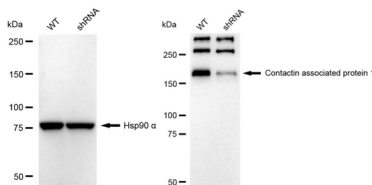
The gene product was initially identified as a 190-kD protein associated with the contactin-PTPRZ1 complex. The 1,384-amino acid protein, also designated p190 or CASPR for 'contactin-associated protein,' includes an extracellular domain with several

putative protein-protein interaction domains, a putative transmembrane domain, and a 74-amino acid cytoplasmic domain. Northern blot analysis showed that the gene is transcribed predominantly in brain as a transcript of 6.2 kb, with weak expression in several other tissues tested. The architecture of its extracellular domain is similar to that of neuroligins, and this protein may be the signaling subunit of contactin, enabling recruitment and activation of intracellular signaling pathways in neurons. [provided by RefSeq, Jan 2009]

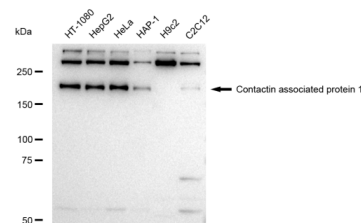
Research Area

Neuroscience

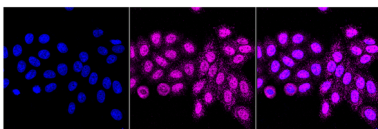
Image Data



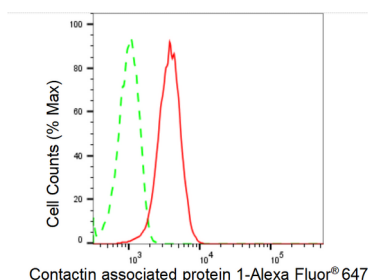
Western blotting analysis using contactin associated protein 1 antibody (KVA01069). Contactin associated protein 1 expression in wild type (WT) and contactin associated protein 1 (CNTNAP1) shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with contactin associated protein 1 antibody (KVA01069, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Contactin associated protein 1 antibody (KVA01069). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Contactin associated protein 1 antibody (KVA01069, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with contactin associated protein 1 antibody (KVA01069, 1:1,000). Nuclei were stained blue with DAPI; Contactin associated protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Contactin associated protein 1 expression in HepG2 cells using Contactin associated protein 1 antibody (KVA01069, 1:2,000). Green, isotype control; red, Contactin associated protein 1.