Synaptic Systems

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ADAM 22

Cat.No. 317 005; Polyclonal Guinea pig antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Guinea pig serum albumin was added for stabilization. For reconstitution add 50 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 (AP staining) **IP**: not tested yet **ICC**: 1 : 500 **IHC**: 1 : 500 **IHC-P/FFPE**: not tested yet
Immunogen	Recombinant protein corresponding to AA 775 to 905 from mouse ADAM22 (UniProt Id: Q9R1V6)
Reactivity	Reacts with: rat, mouse (Q9R1V6). Other species not tested yet.
Specificity	Specific for ADAM 22.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

ADAMs (**a d**isintegrin **a**nd **m**etalloproteinases) are a family of multidomain transmembrane glycoproteins.
With few exceptions most ADAM proteins are active zinc metalloproteinases. Members that lack functional metalloproteinase domains are implicated in protein-protein interactions instead of membrane protein ectodomain shedding. **ADAM 22**, one of these non-proteinase ADAMs acts as a receptor on the surface of the postsynaptic neuron and is involved in the regulation of synaptic signal transmission.

Selected General References

ADAM22 as a prognostic and therapeutic drug target in the treatment of endocrine-resistant breast cancer.
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Vitamins and hormones (2013) 93: 307-21.

Adam22 is a major neuronal receptor for Lgi4-mediated Schwann cell signaling.
Ozkaynak E, Abello G, Jaegle M, van Berge L, Hamer D, Kegel L, Driegen S, Sagane K, Bermingham JR, Meijer D
The Journal of neuroscience : the official journal of the Society for Neuroscience (2010) 30(10): 3857-64.

ADAM22, a Kv1 channel-interacting protein, recruits membrane-associated guanylate kinases to juxtaparanodes of myelinated axons.
Ogawa Y, Oses-Prieto J, Kim MY, Horresh I, Peles E, Burlingame AL, Trimmer JS, Meijer D, Rasband MN
The Journal of neuroscience : the official journal of the Society for Neuroscience (2010) 30(3): 1038-48.

Structural characterization of the ectodomain of a disintegrin and metalloproteinase-22 (ADAM22), a neural adhesion receptor instead of metalloproteinase: insights on ADAM function.
Liu H, Shim AH, He X
The Journal of biological chemistry (2009) 284(42): 29077-86.