

Densin 180

Cat.No. 189 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not recommended IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 877 to 891 and 1341 to 1357 from rat Densin 180 (UniProt Id: P70587)
Reactivity	Reacts with: rat (P70587), mouse (Q80TE7). Other species not tested yet.
Specificity	Specific for densin 180.
Remarks	The crude antiserum is recommended for WB (stronger signals). It is not recommended for ICC.

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

Densin is a 180 kDa transmembrane glycoprotein which belongs to the LAP family [leucine-rich repeat (LRR) and PDZ] family, characterized by an LRR near the N-terminus and one or more PDZ domains at the C-terminus. Several developmentally regulated splice variants and protein-protein interactions with CamKII and nephrin have been described. The protein locates to the post-synaptic density (PSD) in nerve cells but has also been shown to be expressed in glomerular podocytes in kidney.

Selected General References

A novel protein, densin, expressed by glomerular podocytes.
Ahola H, Heikkilä E, Aström E, Inagaki M, Izawa I, Pavenstädt H, Kerjaschki D, Holthöfer H
Journal of the American Society of Nephrology : JASN (2003) 14(7): 1731-7.

Densin-180 forms a ternary complex with the (alpha)-subunit of Ca²⁺/calmodulin-dependent protein kinase II and (alpha)-actinin.
Walikonis RS, Oguni A, Khorosheva EM, Jeng CJ, Asuncion FJ, Kennedy MB
The Journal of neuroscience : the official journal of the Society for Neuroscience (2001) 21(2): 423-33.

Association of calcium/calmodulin-dependent kinase II with developmentally regulated splice variants of the postsynaptic density protein densin-180.
Strack S, Robison AJ, Bass MA, Colbran RJ
The Journal of biological chemistry (2000) 275(33): 25061-4.

Characterization of densin-180, a new brain-specific synaptic protein of the O-sialoglycoprotein family.
Apperson ML, Moon IS, Kennedy MB
The Journal of neuroscience : the official journal of the Society for Neuroscience (1996) 16(21): 6839-52.