

Product datasheet

anti-Synaptopodin/SYNPO (internal N-terminus) guinea pig
polyclonal, serum

Short overview

Cat. No.	GP94-INN
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Synthetic peptides (mouse internal N-terminal sequence), coupled to KLH
Formulation	Contains 0.09% sodium azide and 0.5% BSA
UniprotID	Q8N3V7 (Human), Q91YE8 (Mouse)
Synonym	Synaptopodin, SYNPO, KIAA1029
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Stabilized antiserum
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	ICC/IF, IHC, WB
Reactivity	Human, Mouse

Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:50
Immunohistochemistry (IHC) - paraffin	1:50 (microwave treatment recommended)
Western Blot (WB)	1:500

Background

The antibody reacts specifically with an epitope in the internal part of synaptopodin/SYNPO, a prolin-rich actin-binding protein with 2 binding sites for actin. Synaptopodin belongs to actin-binding pro-teins, it has first been localized in podocytes and a subset of telencephalic postsynaptic densities. In human tissue synaptopodin has a molecular weight of 73.7 kD and pI of 9.38 (calculated from sequence data); in mouse the corresponding data are 74 kD, pI 9.27. In SDS-PAGE the antigen appears as 100 kD polypeptide in brain and 110 kD polypeptide in kidney (attributed to posttranslational modifications). In Western blot analysis the antibody also reacts with a 44 kD degradation fragment of synaptopodin.

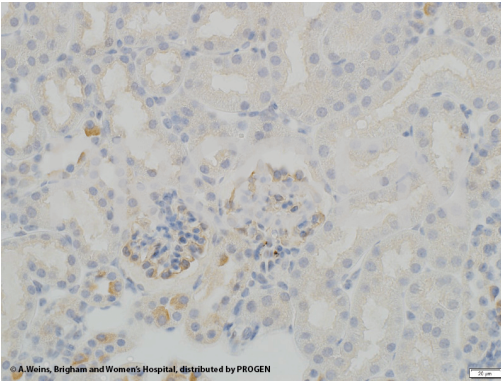
The antibody recognizes differentiated podocytes (glomerular visceral epithelial cells) in vivo and in vitro (weaker additional reaction with arterial endothelial cells), co-localization with alpha-actinin. Reacts with a subset of exclusively telencephalic synapses. Differentiation-dependent expression during postnatal maturation of murine brain. Differentiation-dependent expression in cultured hippocampal neurons.

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Product images



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Synaptopodin staining in human glomeruli (GP94-INN; dilution 1:100) (Image courtesy of A. Weins, Brigham and Women's Hospital)