

## Product datasheet for **BM5086**

### Synaptopodin (SYNPO) Mouse Monoclonal Antibody [Clone ID: G1D4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	G1D4
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunofluorescence.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections</b> (after microwave treatment). <i>Incubation Time:</i> 1 h at RT for Immunohistochemistry . <i>Working Dilution:</i> Ready-to-use for Immunohistochemistry. <b>Immunoblotting (Western Blot).</b> The antibody also reacts with a 44 kD degradation fragment of Synaptopodin.
Reactivity:	Bovine, Guinea Pig, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Isolated Rat kidney glomeruli.
Specificity:	The antibody reacts specifically with Synaptopodin. 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 (the difference might be attributed to posttranslational modifications). 1. The antibody recognizes differentiated podocytes (glomerular visceral epithelial cells) <i>in vivo</i> and <i>in vitro</i> (weaker additional reaction with arterial endothelial cells), co-localization with alpha-actinin. Does not react with parietal cells. 2. Reacts with a subset of exclusively telencephalic synapses. Differentiation independent expression during postnatal maturation of Rat brain. Differentiation independent expression in cultured hippocampal neurons.
Formulation:	State: Supernatant State: Liquid Culture Supernatant Preservative: 0.01% Sodium Azide
Conjugation:	Unconjugated



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<b>Storage:</b>	Store the antibody undiluted at 2-8°C.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	synaptopodin
<b>Database Link:</b>	<a href="#">Entrez Gene 11346 Human</a> <a href="#">Q8N3V7</a>
<b>Background:</b>	Synaptopodin, a prolin-rich actin-binding protein with 2 binding sites for actin, represents a new class of actin-binding proteins which has first been localized in podocytes and a subset of telencephalic postsynaptic densities.
<b>Synonyms:</b>	KIAA1029