

## Product datasheet for **TA388995**

### Calbindin (CALB1) Mouse Monoclonal Antibody [Clone ID: 5A9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	5A9
Applications:	IHC, WB
Recommended Dilution:	<b>WB:</b> 1:2000 <b>WB Brain:</b> 1:2000
Reactivity:	Bovine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant full length human calbindin purified from E. coli.
Specificity:	Specific for endogenous levels of the ~28 kDa calbindin protein.
Formulation:	PBS + 50% glycerol and 5 mM Na <sub>3</sub> N
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	28
Gene Name:	calbindin 1
Database Link:	<a href="#">Entrez Gene 793 Human P05937</a>



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<b>Background:</b>	Calbindin (aka. calbindin D28k) is a member of the calcium-binding protein superfamily that includes calmodulin and troponin C. It is predominantly expressed in certain types of neurons, particularly in dendrites and perikarya of the cerebellum and is thought to buffer entry of calcium upon stimulation of glutamate receptors (Andressen et al., 1993). Calbindin has recently been shown to play a critical role in mitochondrial dysfunction and loss of synaptic proteins in vivo in an Alzheimer's disease mouse model (Kook et al., 2014).
<b>Synonyms:</b>	CAB27; CALB; D-28K
<b>Note:</b>	Protein G purified culture supernatant.