

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Calbindin D in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human S100P.
Source	Monoclonal Mouse IgG _{2B} Clone # 401025
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Calbindin D Met1-Asn261 Accession # P05937
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Calbindin D, also known as Calbindin 1, is a Vitamin D-dependent cytoplasmic protein in the EF-hand calcium binding protein family that includes calmodulin, parvalbumin, troponin C, and S100. Calbindin D is widely expressed and regulates calcium homeostasis. Calbindin D protects neurons from excitotoxic and apoptotic cell death by buffering excess calcium. Human, mouse, and rat Calbindin D share 99% amino acid sequence identity.

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