

Datasheet for 200-301-P25**Calmodulin Antibody****Overview**

Description:	Anti-Calmodulin (MOUSE) Antibody - 200-301-P25
Item No.:	200-301-P25
Size:	100 µg
Applications:	WB
Reactivity:	Rat, Chicken
Host Species:	Mouse

Product Details

Background:	Calmodulin is the archetype of the family of calcium-modulated proteins of which nearly 20 members have been found. Calmodulin contains 149 amino acids and has 4 calcium-binding domains. Its functions include roles in growth and the cell cycle as well as in signal transduction and the synthesis and release of neurotransmitters. Three calmodulin genes (CALM1, CALM2, and CALM3) map to chromosomes 14q24-q31, 2p21.1-p21.3, and 19q13.2-q13.3, respectively. This antibody is suitable for researchers interested in cardiovascular diseases, neurodegenerative diseases, autoimmune diseases, Cancer research, Developmental Signaling, Inflammatory Signaling, Cytoskeletal Signaling, GPCR signaling, AKT Signaling, and MAK Kinase Signaling.
Synonyms:	CALM, CAM, CAM1, CAM2, CAMB, CALML2, CAM3, CAMC, CAMIII
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	6D4
Format:	IgG1

Target Details

Gene Name:	CALM1, CALM2, CALM3
Reactivity:	Rat, Chicken
Immunogen Type:	Other

Immunogen:	Calmodulin antibody was produced in mice by repeated immunizations with a preparation of purified calmodulin from Dictyostelium discoideum conjugated to KLH.
Purity/Specificity:	Anti-Calmodulin antibody was purified from mouse ascites by protein A chromatography. This product reacts with human, mouse, and rabbit. Cross reactivity with Calmodulin from other sources has not been determined.
Relevant Links:	• UniProtKB - P62158 • GeneID - 801 • NCBI - NP_001734.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Calmodulin has been tested in Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~16.8 kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000
WB:	0.5µg/ml

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1.2% sodium acetate
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	2mg BSA
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Neutral PBS

Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition: Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.