

## Anti-Calbindin Antibody [CALB1/3333] (A250371)

### Specifications:

Name:	Anti-Calbindin Antibody [CALB1/3333]
Description:	Mouse monoclonal [CALB1/3333] antibody to Calbindin.
Specificity:	The family of EF-hand type Ca <sup>2+</sup> -binding proteins includes Calbindin D28K, Calbindin D9K, S-100 and , Calgranulin A (also designated MRP8), Calgranulin B (also designated MRP14), Calgranulin C and the Parvalbumin family members, including Parvalbumin and Parvalbumin (also designated oncomodulin). Calbindin D28K, also known as calbindin, CALB1, D-28K or vitamin D-dependent calcium-binding protein, is a 261-amino acid protein with 6 EF-hand domains, 4 of which are active calcium-binding domains. Expressed in brain, ovary, uterus, testis, pancreas, liver, kidney and intestine, Calbindin D28K acts as a calcium-buffering agent and alters the activity of the plasma membrane ATPase. In neuronal cells, Calbindin D28K modulates calcium channel activity, calcium transients and intrinsic neuronal firing activity. Also, Calbindin D28K has been implicated to play a role in apoptosis and microtubule function.
Applications:	ELISA, IHC-P
Recommended Dilutions:	IHC-P: 1-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 7-96, of human CALB1 protein. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	CALB1/3333
Isotype:	IgG2b
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

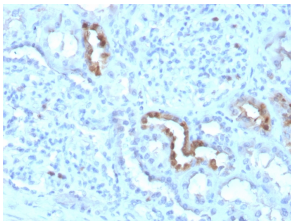
## Anti-Calbindin Antibody [CALB1/3333] (A250371)

### Specifications continued:

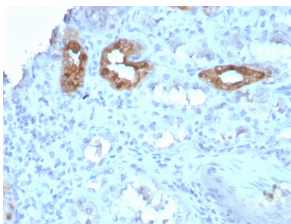
**General Notes:** This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-Calbindin Antibody [CALB1/3333] - BSA and Azide free (A253551).

**Disclaimer:** This product is for research use only. It is not intended for diagnostic or therapeutic use.

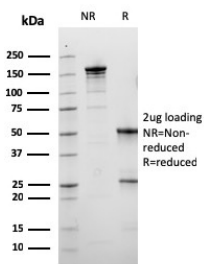
### Images:



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human kidney using Anti-Calbindin Antibody [CALB1/3333].



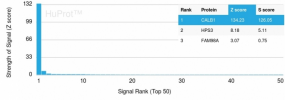
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human kidney using Anti-Calbindin Antibody [CALB1/3333].



SDS-PAGE analysis of Anti-Calbindin Antibody [CALB1/3333] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

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Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-Calbindin Antibody [CALB1/3333]. Z-Score and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target; a MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.