Human Calbindin D Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3320

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Calbindin D in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Calbindin D Ala2-Asn261 Accession # P05937
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

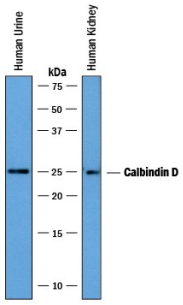
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human brain (cerebellum), intestine, and rat brain (cerebellum)
Simple Western	10 µg/mL	See Below

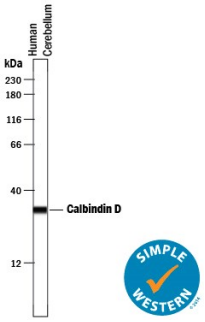
DATA

Western Blot



Detection of Human Calbindin D by Western Blot. Western blot shows human urine and lysates of human kidney tissue. PVDF membrane was probed with 5 µg/mL of Goat Anti-Human Calbindin D Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3320) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Calbindin D at approximately 25 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human Calbindin D by Simple Western™. Simple Western lane view shows lysates of human brain (cerebellum) tissue, loaded at 0.2 mg/mL. A specific band was detected for Calbindin D at approximately 32 kDa (as indicated) using 10 µg/mL of Goat Anti-Human Calbindin D Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3320) . This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 98% amino acid sequence identity.

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