
Parvalbumin (Clone SP300)

Rabbit Monoclonal Antibody

Specificity: Human

Immunogen: Recombinant peptide within human parvalbumin aa 1 to the C-terminus

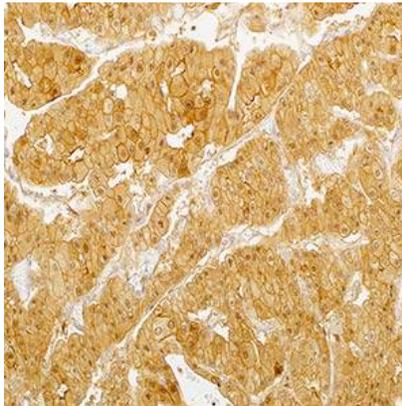
Ig Class: Rabbit IgG

Storage: Store vial at 4° C. When stored at 2-8° C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-100; *Positive Control:* Chromophobe renal cell carcinoma. *Cellular Localization:* Cytoplasmic. *Intended Use:* In vitro diagnosis (IVD).

Description: Parvalbumin is a 12 kDa calcium-binding protein that modulates intracellular calcium dynamics. Capable of binding two calcium ions, parvalbumin functions as a relaxing factor that shuttles calcium ions from other calcium-binding proteins to buffer intracellular calcium. First detected in glycolytic skeletal muscle fibers, it is also expressed in the axons and terminals of cerebellar interneurons of the cerebellum, horizontal and ganglion cells of the retina, and distal convoluted tubules and connecting tubules in the kidney. In cancer, parvalbumin has been suggested as a useful marker for distinguishing primary and metastatic chromophobe renal cell carcinoma and renal oncocytoma from papillary renal cell and clear cell carcinomas. It stains 80-100% of chromophobe carcinomas and 69-82% of oncocytomas, compared to 0-8% clear cell and 0-31% papillary renal cell carcinomas. Sensitivity and specificity was determined as 80% and 89%, respectively.

Supplied As: Purified antibody fraction from rabbit anti-serum with 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human chromophobe renal cell carcinoma stained with anti-parvalbumin antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic staining of tumor cells

Cat. #Z2328 (1.0 ml)

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