

Product datasheet for **AM33258PU-S**

Carbonic Anhydrase IX (CA9) (Renal Cell Carcinoma Marker) Mouse Monoclonal Antibody [Clone ID: SPM487]

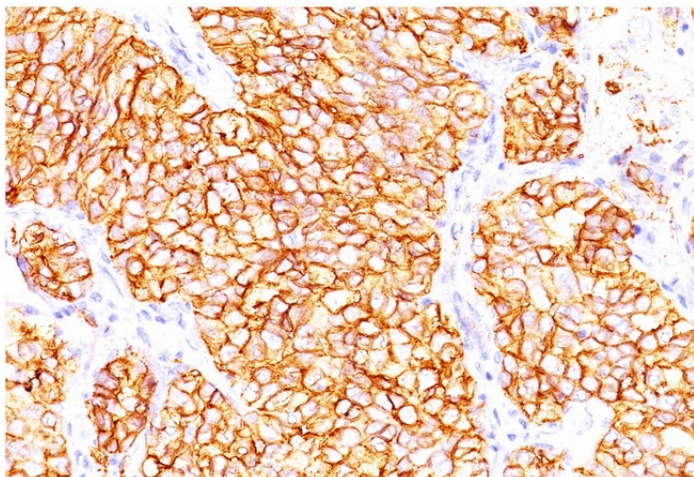
Product data:

Product Type:	Primary Antibodies
Clone Name:	SPM487
Applications:	FC, IF, IHC, WB
Recommended Dilution:	ELISA: Use BSA free antibody for coating. Flow Cytometry: 0.5-1 µg/10 ⁶ cells. Immunofluorescence: 1-2 µg/ml. Western Blot: 0.5-0.1 µg/ml. Immunoprecipitation: 1-2 µg/500 µg protein lysate. Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Positive Control: Normal kidney or renal cell carcinoma.
Reactivity:	Equine, Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Microsomal fraction of human renal cortical tissue homogenate
Specificity:	Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200). Its epitope resides in the carbohydrate domain of gp200. It shows no significant cross-reactivity with other carbohydrate determinants, such as the Lewis blood group antigens, epithelial membrane antigen, HMFG, and AB blood group antigens. In normal kidney, gp200 is localized along the brush border of the pars convoluta and pars recta segments of the proximal tubule, as well as focally along the luminal surface of Bowman's capsule adjoining the outgoing proximal tubule. Reportedly, gp200 is expressed by 93% of primary and 84% of metastatic renal cell carcinomas. This Monoclonal antibody may be useful in the investigations of carcinomas of proximal nephrogenic differentiation especially those showing tubular differentiation. Cellular Localization: Cell Surface and Cytoplasmic.



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Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	200 kDa
Gene Name:	carbonic anhydrase 9
Database Link:	Entrez Gene 768 Human Q16790
Background:	In normal kidney, gp200 is localized along the brush border of the pars convoluta and pars recta segments of the proximal tubule, as well as focally along the luminal surface of Bowman's capsule adjoining the outgoing proximal tubule. Of other normal tissues examined, the gp200 is also localized along the luminal surfaces of breast lobules and ducts, the luminal surface of the epididymal tubular epithelium, within the cytoplasm of parathyroid parenchymal cells, and focally within the colloid of thyroid follicles. Thirty-one other normal tissues do not express similar or cross-reacting antigens. Reportedly, gp200 is expressed by 93% of primary and 84% of metastatic renal cell carcinomas.
Synonyms:	Carbonic anhydrase IX, Carbonate dehydratase IX, Membrane antigen MN, P54/58N, pMW1, CA9, CA IX, G250

Product images:

Formalin-Paraffin Human renal cell carcinoma stained with RCC Antibody (Clone SPM487). Note cytoplasmic & cell surface staining of tumor cells.