

Product datasheet for UM500086

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CA12 Mouse Monoclonal Antibody [Clone ID: UMAB121]

Product data:

Product Type: Primary Antibodies

Clone Name: UMAB121
Applications: IF, IHC, WB

Recommended Dilution: IHC 1:100~200

Reactivity: Human
Host: Mouse
Isotype: IgG2a

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human CA12(NP_001209) produced in HEK293T

cell

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 0.5~1.0 mg/ml (Lot Dependent)

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 36.8 kDa

Gene Name: carbonic anhydrase 12

Database Link: NP 001209

Entrez Gene 771 Human

043570



Background: Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the

reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas. Two transcript variants encoding different isoforms have been identified for this gene.

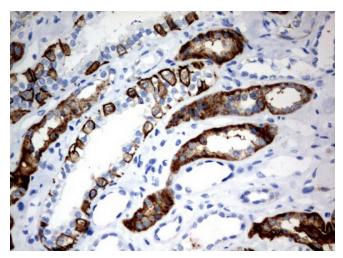
[provided by RefSeq, Jul 2008]

Synonyms: CAXII; HsT18816

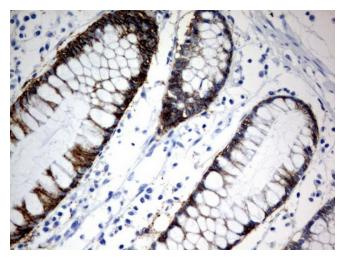
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Nitrogen metabolism

Product images:

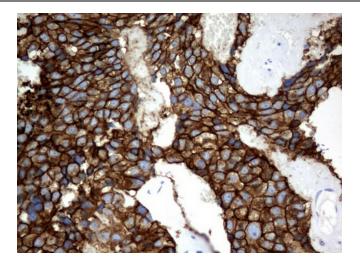


Immunohistochemical staining of paraffinembedded Human Kidney tissue using anti-CA12 mouse monoclonal antibody. (UM500086; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

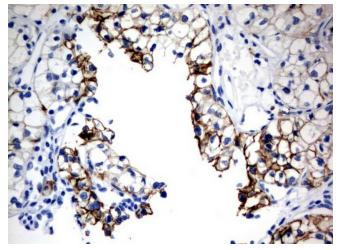


Immunohistochemical staining of paraffinembedded Human colon tissue using anti-CA12 mouse monoclonal antibody. (UM500086; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

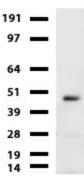




Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human breast tissue using anti-CA12 mouse monoclonal antibody. (UM500086; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

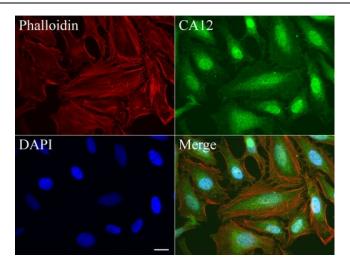


Immunohistochemical staining of paraffinembedded Carcinoma of Human kidney tissue using anti-CA12 mouse monoclonal antibody. (UM500086; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



Western blot of cell lysates (35ug) from A549. Diluation: 1:500





Immunofluorescent staining of HeLa cells using anti-CA12 mouse monoclonal antibody (UM500086, green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue). Scale bar, 20µm.