

Rabbit CA12 Polyclonal Antibody | anti-CA12 antibody

CA12 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324559	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

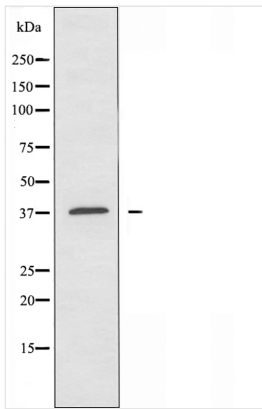
PRODUCT SYNONYMS

CA12; Polyclonal Antibody; CA12 Antibody; CA 12; CA XII; CA-XII; CAH12_HUMAN; Carbonate dehydratase XII; Carbonic anhydrase 12; Carbonic anhydrase XII; Carbonic dehydratase; CAXII; FLJ20151; HsT18816; T18816; Tumor antigen HOM RCC 3.1.3; Tumor antigen HOM-RCC-3.1.3; anti-CA12 antibody

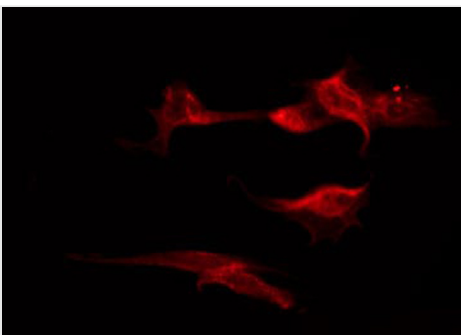
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CA12 antibody detects endogenous levels of total CA12
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	354
Applicable Applications for anti-CA12 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	Highly expressed in colon, kidney, prostate, intestine and activated lymphocytes. Expressed at much higher levels in the renal cell cancers than in surrounding normal kidney tissue. Moderately expressed in pancreas, ovary and testis.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (91%), Rabbit (90%), Dog (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from MCF-7 cells, using CA12 antibody.



IF (Immunofluorescence)
AAA324559 staining MCF7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CA12 antibody	Function: Reversible hydration of carbon dioxide. Subunit Structure: Homodimer. Similarity: Belongs to the alpha-carbonic anhydrase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502515
NCBI GeneID	771
NCBI Accession #	NP_001209.1
NCBI GenBank Nucleotide #	NM_001218.4
UniProt Accession #	O43570; Q53YE5; Q9BWG2; B2RE24
Molecular Weight	Observed: 39 kD Predicted: 40 kDa
NCBI Official Full Name	carbonic anhydrase 12 isoform 1
NCBI Official Synonym Full Names	carbonic anhydrase 12
NCBI Official Symbol	CA12
NCBI Official Synonym Symbols	CAXII; CA-XII; T18816; HsT18816
NCBI Protein Information	carbonic anhydrase 12
UniProt Protein Name	Carbonic anhydrase 12
UniProt Gene Name	CA12
UniProt Synonym Gene Names	CA-XII

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.