

Rabbit CAPER Polyclonal Antibody | anti-CAPER antibody

CAPER Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323759	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CAPER; Polyclonal Antibody; CAPER Antibody; APT6M8 9; APT6M8-9; ATP6AP2; ATP6IP2; ATP6M8-9; ATPase H(+)-transporting lysosomal accessory protein 2; ATPase H(+)-transporting lysosomal-interacting protein 2; ATPase H+ transporting lysosomal accessory protein 2; ATPase H+ transporting lysosomal interacting protein 2; ATPase H+ transporting lysosomal vacuolar proton pump membrane sector associated protein M8 9; ATPase membrane sector associated protein M8 9; ATPase; H+ transporting; lysosomal (vacuolar proton pump) membrane sector associated protein M8 9; ELDF10; Embryonic liver differentiation factor 10; ER localized type I transmembrane adaptor; ER-localized type I transmembrane adaptor; HT028; M8 9; M8-9; MGC99577; MRXE; MSTP009; N14F; Renin receptor; Renin/prorenin receptor; RENR_HUMAN; V ATPase M8 9 subunit; V ATPase M8.9 subunit; V-ATPase M8.9 subunit; Vacuolar ATP synthase membrane sector associated protein M8 9; Vacuolar ATP synthase membrane sector-associated protein M8-9; vacuolar proton ATP synthase membrane sector associated protein M8 9; XMRE; anti-CAPER antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Caper antibody detects endogenous levels of total Caper
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	350
Applicable Applications for anti-CAPER antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	Expressed in brain, heart, placenta, liver, kidney and pancreas. Barely detectable in lung and skeletal muscles. In the kidney cortex it is restricted to the mesangium of glomeruli. In the coronary and kidney artery it is expressed in the subendothelium, associated to smooth muscles where it colocalizes with REN. Expressed in vascular structures and by syncytiotrophoblast cells in the mature fetal placenta.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (82%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA323759 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from 293, using Capex Antibody. Lane 1 was treated with the blocking peptide.



IF (Immunofluorescence)
AAA323759 staining COLO205 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.



WB (Western Blot)
Western blot analysis of extracts from COLO205 cells using Capex antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CAPER antibody	Function: Functions as a renin and prorenin cellular receptor. May mediate renin-dependent cellular responses by activating ERK1 and ERK2. By increasing the catalytic efficiency of renin in AGT/angiotensinogen conversion to angiotensin I, it may also play a role in the renin-angiotensin system (RAS). Subunit Structure: Interacts with renin and the vacuolar proton-ATPase. Post-translational Modifications: Phosphorylated.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15011918
NCBI GeneID	10159
NCBI Accession #	NP_005756.2
NCBI GenBank Nucleotide #	NM_005765.2
UniProt Accession #	O75787; Q5QTQ7; Q6T7F5; Q8NBP3; Q8NG15; Q96FV6; Q96LB5; Q9H2P8; Q9UG89; B7Z9I3
Molecular Weight	Observed: 39 kD Predicted: 40 kDa
NCBI Official Full Name	renin receptor
NCBI Official Synonym Full Names	ATPase H+ transporting accessory protein 2
NCBI Official Symbol	ATP6AP2
NCBI Official Synonym Symbols	PRR; M8-9; MRXE; RENR; XMRE; XPDS; HT028; MRXSH; ELDF10; ATP6IP2; MSTP009; APT6M8-9; ATP6M8-9
NCBI Protein Information	renin receptor
UniProt Protein Name	Renin receptor
UniProt Gene Name	ATP6AP2
UniProt Synonym Gene Names	ATP6IP2; CAPER; ELDF10; ATP6M8-9; V-ATPase M8.9 subunit

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.

