Rabbit CPE Polyclonal Antibody | anti-CPE antibody

CPE Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324571	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

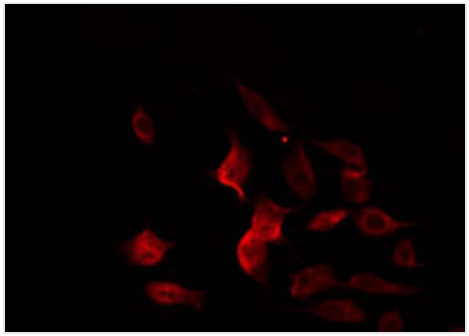
PRODUCT SYNONYMS

CPE; Polyclonal Antibody; CPE Antibody; Carboxypeptidase E; Carboxypeptidase H; Carboxypeptidase H precursor; CarboxypeptidaseE; CarboxypeptidaseH; CBPE_HUMAN; Cobalt stimulated chromaffin granule carboxypeptidase; Cph 1; CPH; Enkephalin convertase; Entephalin convertase; Insulin granule associated carboxypeptidase; Prohormone processing carboxypeptidase; Prohormone-processing carboxypeptidase; anti-CPE antibody

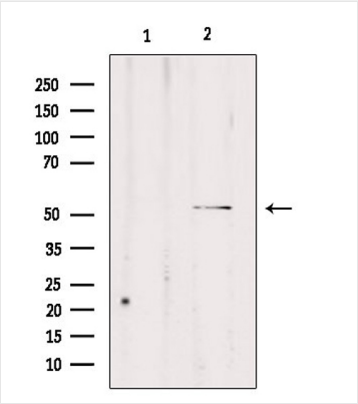
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CPE antibody detects endogenous levels of total CPE
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	476
Applicable Applications for anti-CPE antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus and Secreted. Secretory granules of pancreatic islets, adrenal gland, pituitary and brain.
Tissue Specificity	Isoform 2, but not isoform 1, is overexpressed in hepatocellular carcinoma (at protein level), as well as in other tumors, including pheochromocytomas and paragangliomas.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken**
Similarity	Pig (90%), Zebrafish (90%), Bovine (90%), Horse (100%), Sheep (90%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

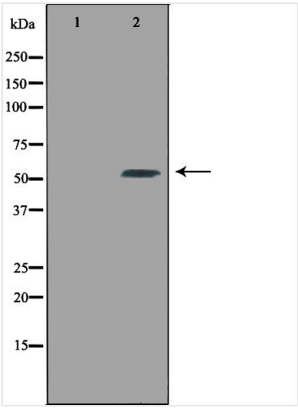
IMAGES



IF (Immunofluorescence)
AAA324571 staining RAW264.7 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 rat brain, using CPE Antibody. Lane 1 was treated with the blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from 3T3 cells using CPE antibody.The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CPE antibody	Function: Removes residual C-terminal Arg or Lys remaining after initial endoprotease cleavage during prohormone processing. Processes proinsulin. Subunit Structure: Isoform 2 interacts with HDAC1 and HDAC2. Similarity: Belongs to the peptidase M14 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503009
NCBI GeneID	1363
NCBI Accession #	NP_001864.1
NCBI GenBank Nucleotide #	NM_001873.3
UniProt Accession #	P16870; Q9UIU9; A8K4N1; B3KR42; B4DFN4; D3DP33
Molecular Weight	Observed: 53 kD Predicted: 54 kDa
NCBI Official Full Name	carboxypeptidase E preproprotein
NCBI Official Synonym Full Names	carboxypeptidase E
NCBI Official Symbol	CPE

NCBI Official Synonym Symbols	CPH
NCBI Protein Information	carboxypeptidase E
UniProt Protein Name	Carboxypeptidase E
UniProt Gene Name	**CPE**
UniProt Synonym Gene Names	CPE; CPH

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.

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