

# Product Data Sheet

## Anti-Carbonic Anhydrase 2 Antibody

Catalog #	Source	Reactivity	Applications
CPA1120	Rabbit	H, R, Mk	WB, IH
<b>Description</b>	Rabbit polyclonal antibody to Carbonic Anhydrase 2		
<b>Immunogen</b>	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Carbonic Anhydrase 2. The exact sequence is proprietary.		
<b>Purification</b>	The antibody was purified by immunogen affinity chromatography.		
<b>Specificity</b>	Recognizes endogenous levels of Carbonic Anhydrase 2 protein.		
<b>Clonality</b>	Polyclonal		
<b>Form</b>	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		
<b>Dilution</b>	WB (1/500 - 1/1000), IH (1/100 - 1/200)		
<b>Gene Symbol</b>	CA2		
<b>Alternative Names</b>	Carbonic anhydrase 2; Carbonate dehydratase II; Carbonic anhydrase C; CAC; Carbonic anhydrase II; CA-II		
<b>Entrez Gene</b>	760 (Human); 54231 (Rat)		
<b>SwissProt</b>	P00918 (Human); P27139 (Rat)		
<b>Storage/Stability</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.		

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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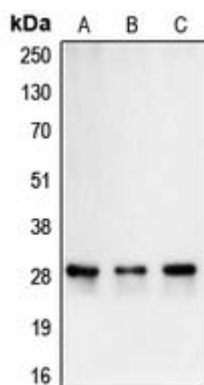
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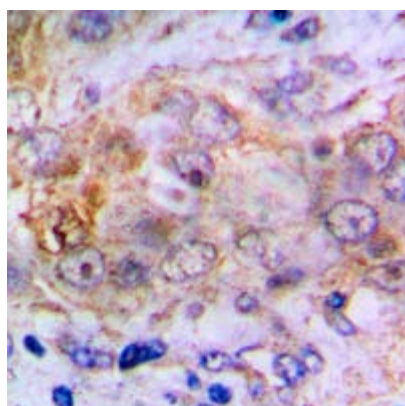
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Western blot analysis of Carbonic Anhydrase 2 expression in Caco2 (A), K562 (B), Caki1 (C) whole cell lysates.



Immunohistochemical analysis of Carbonic Anhydrase 2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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