

## CA III rabbit pAb

**Cat#: orb770419 (Manual)**

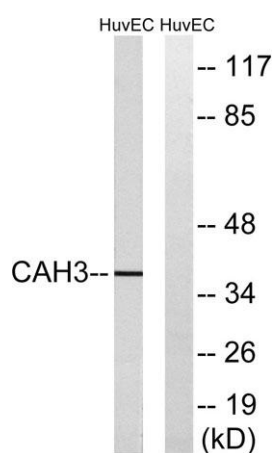
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<b>Product Name</b>	CA III rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CA3. AA range:141-190
<b>Specificity</b>	CA III Polyclonal Antibody detects endogenous levels of CA III protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Carbonic anhydrase 3
<b>Gene Name</b>	CA3
<b>Cellular localization</b>	Cytoplasm .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

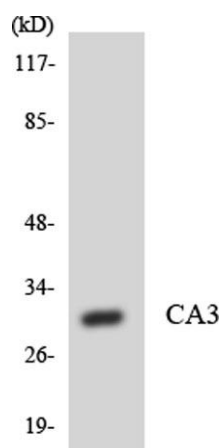
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	38kD
<b>Human Gene ID</b>	761
<b>Human Swiss-Prot Number</b>	P07451
<b>Alternative Names</b>	CA3; Carbonic anhydrase 3; Carbonate dehydratase III; Carbonic anhydrase III; CA-III

### Background

Carbonic anhydrase III (CAIII) is a member of a multigene family (at least six separate genes are known) that encodes carbonic anhydrase isozymes. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration of carbon dioxide and are differentially expressed in a number of cell types. The expression of the CA3 gene is strictly tissue specific and present at high levels in skeletal muscle and much lower levels in cardiac and smooth muscle. A proportion of carriers of Duchenne muscle dystrophy have a higher CA3 level than normal. The gene spans 10.3 kb and contains seven exons and six introns. [provided by RefSeq, Oct 2008],



**Western blot analysis of lysates from HUVEC cells, using CA3 Antibody. The lane on the right is blocked with the synthesized peptide.**



**Western blot analysis of the lysates from HUVEC cells using CA3 antibody.**



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