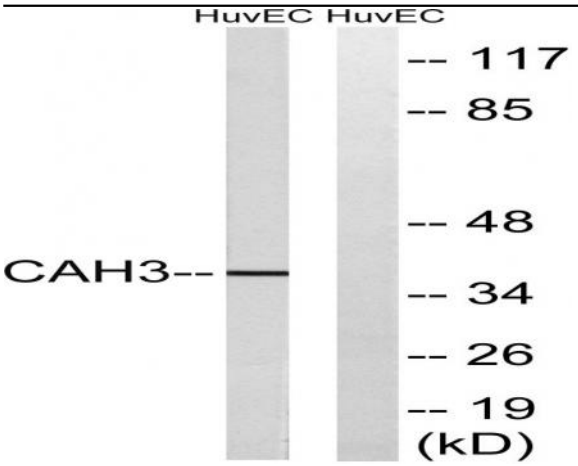
Immunoway
Best Tools for immunology Research

CA III Polyclonal Antibody

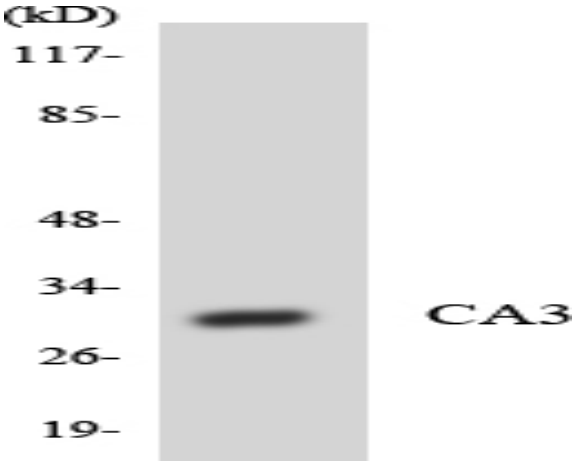
Catalog No :	YT0574
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	CA III
Fields :	>>Nitrogen metabolism;>>Metabolic pathways
Gene Name :	CA3
Protein Name :	Carbonic anhydrase 3
Human Gene Id :	761
Human Swiss Prot No :	P07451
Mouse Gene Id :	12350
Mouse Swiss Prot No :	P16015
Rat Gene Id :	54232
Rat Swiss Prot No :	P14141
Immunogen :	The antiserum was produced against synthesized peptide derived from human CA3. AA range:141-190
Specificity :	CA III Polyclonal Antibody detects endogenous levels of CA III protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	38kD
Cell Pathway :	Nitrogen metabolism;
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],
Function :	catalytic activity:H(2)CO(3) = CO(2) + H(2)O.,cofactor:Zinc.,developmental stage:At 6 weeks gestation, transcripts accumulate at low levels in the somites and at high levels throughout the notochord. As gestation continues, CA3 becomes abundant in all developing muscle masses and continues at high to moderate levels in the notochord.,function:Reversible hydration of carbon dioxide.,similarity:Belongs to the alpha-carbonic anhydrase family.,tissue specificity:Muscle specific.,
Subcellular Location :	Cytoplasm .
Expression :	Muscle specific.

Products Images



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



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