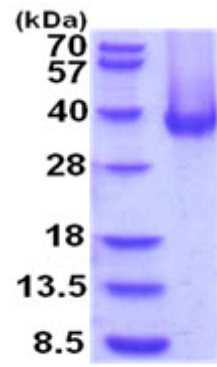


**AR51944PU-N****Human Carbonic anhydrase 12 (25-301, His-tag) - Purified**

<b>Alternate names:</b>	CA-XII, CA12, Carbonate dehydratase XII, Carbonic anhydrase XII, HOM-RCC-3.1.3 tumor antigen
<b>Quantity:</b>	0.25 mg
<b>Concentration:</b>	0.5 mg/ml (determined by absorbance at 280nm)
<b>Background:</b>	CA12, also known as Carbonic anhydrase 12, is an enzyme that in humans is encoded by the CA12 gene. Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas.
<b>Uniprot ID:</b>	<a href="#">O43570</a>
<b>NCBI:</b>	<a href="#">NP_001209</a>
<b>GenelD:</b>	<a href="#">771</a>
<b>Species:</b>	Human
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >90% by SDS - PAGE <b>Buffer System:</b> Phosphate buffered saline (pH7.4) containing 10% glycerol. <b>Endotoxin Level:</b> < 1.0 EU per 1 microgram of protein (determined by LAL method)
<b>Description:</b>	Recombinant human CA12, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques. <b>AA Sequence:</b> APVNGSKWTY FGPDGENSWS KKYPSGGLL QSPIDLHSDI LQYDASLTPL EFQGYNLSAN KQFLLTNNGH SVKLNLPSPDM HIQGLQSRYS ATQLHLHWGN PNDPHGSEHT VSGQHFAAEL HIVHYNSDLY PDASTASNKS EGLAVLAVLI EMGSFNPSYD KIFSHLQHVK YKGQEAFFVPG FNIEELLPER TAEYRYRGS LTTTPPCNPTV LWTVFRNPVQ ISQEQLLALALE TALYCTHMDD PSPREMINNF RQVQKFDERL VYTSFSQVQV CTAAGLSHHH HHH <b>Molecular weight:</b> 31.94 kDa (283aa)
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Tureci O. et al. (1998) Proc Natl Acad Sci U S A. 95(13):7608-13. Kyllonen MS. et al. (2003) J Histochem Cytochem. 51(9):1217-24.

Pictures:



15% SDS-PAGE (3ug)