

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carbonic Anhydrase X/CA10 in ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 862319
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carbonic Anhydrase X/CA10 Met1-Asn300 Accession # Q9NS85
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CA10 (Carbonic Anhydrase-related X), also called CARP X and Cerebral protein 15, is a cytosolic 35 kDa (predicted) member of the α-carbonic anhydrase family of molecules. Although it does not possess CA enzymatic activity due to the lack of Zn and His in its (potential) catalytic site, the recombinant protein used as an immunogen does show esterase activity. CA10 is found principally in CNS neurons and respiratory epithelium. Human CA10 is 328 amino acids (aa) in length. It possesses one carbonic anhydrase domain that contains a utilized phosphorylation site at Thr299. One potential isoform is reported that shows a 22 aa substitution for aa 277-328. Human and mouse CA10 are identical in amino acid sequence.

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