For Research Use Only

CA3 Monoclonal antibody, PBS Only

Catalog Number:66608-1-PBS

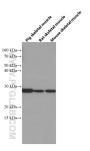


Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 66608-1-PBS BC004897 Protein A purification GeneID (NCBI): CloneNo.: Size: 1 mg/ml 761 3C10A2 UNIPROT ID: Source: Mouse P07451 Full Name: Isotype: lgG2b carbonic anhydrase III, muscle specific Immunogen Catalog Number: AG7513 Calculated MW: 29 kDa Observed MW: 29 kDa **Applications Tested Applications:** WB, IF, IHC, Indirect ELISA Species Specificity: Human, Mouse, Rat, Pig **Background Information** Carbonic anhydrase III (CA3), which belongs to the alpha-carbonic anhydrase family, is a cytoplasmic enzyme that exhibits a relatively low carbon dioxide hydratase activity. It is expressed at a very high level in skeletal muscle, where physical exercise has been shown to increase free radical production. In addition to its carbon dioxide hydratase activity, CA3 has been demonstrated to have a carboxyl esterase activity and phosphatase activity, which suggests that it is a tyrosine phosphatase (PMID: 10064618). CA3 was found to be localized in Type-I muscle fibers and could be used as a marker for abnormal Type-I muscle fibers in several neuromuscular diseases (PMID: 6221502). Storage: **Storage** Store at -80°C. Storage Buffer: PBS Only

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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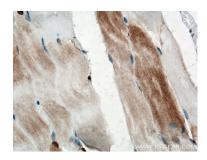
Selected Validation Data



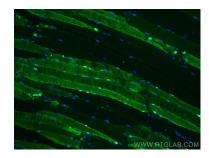
Various lysates were subjected to SDS PAGE followed by western blot with 66608-1-Ig (CA3 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66608-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 66608-1-1g (CA3 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66608-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 66608-1-1g (CA3 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66608-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using CA3 antibody (66608-1-Ig, Clone: 3C10A2) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgC(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66608-1-PBS in a different storage buffer formulation.