

Carbonic Anhydrase 3 / CA3 Antibody

Mouse Monoclonal Antibody [Clone CA3/7883]

Catalog No	Format	Size
761-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
761-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
761-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

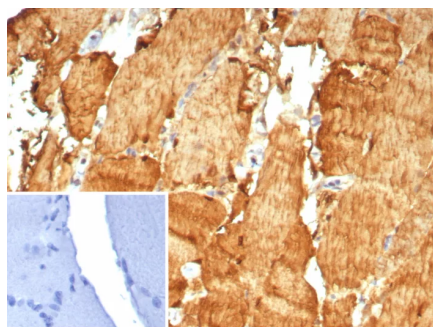
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

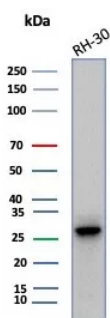
Clone	CA3/7883
Gene Name	CA3
Immunogen	Recombinant fragment of human CA3 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	28kDa
Cellular Localization	Cytoplasm.
Species Reactivity	Human
Positive Control	Muscle specific.

*Optimal dilution for a specific application should be determined.

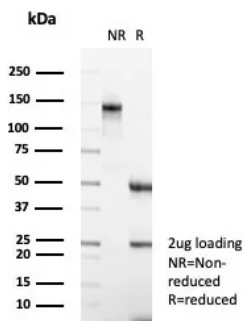
Product Images for Carbonic Anhydrase 3 / CA3 Antibody



Formalin-fixed, paraffin-embedded human skeletal muscle stained with CA3 Mouse Monoclonal Antibody (CA3/7883). Inset: PBS instead of primary antibody; secondary only negative control.



Western blot analysis of RH-30 cell lysate using CA3 Mouse Monoclonal Antibody (CA3/7883).



SDS-PAGE Analysis of Purified CA3 Mouse Monoclonal Antibody (CA3/7883).
Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

Carbonic anhydrases (CAs) are members of a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. CAs are involved 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 juice. They show extensive diversity in distribution and in their subcellular localization. CA III (carbonic anhydrase III), also known as Car3 or CA3, is a 260 amino acid cytoplasmic protein that is specifically expressed in muscle. Belonging to the α -carbonic anhydrase family, CA III is activated by proton donors such as imidazole and dipeptide histidylhistidine, and is inhibited by coumarins and sulfonamide derivatives such as acetazolamide.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.