

bsm-54409R**[Primary Antibody]****BioSS**
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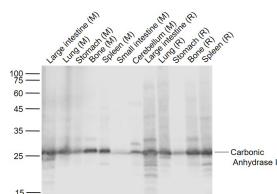
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Carbonic Anhydrase I Recombinant Rabbit mAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 2H4**GeneID:** 759**SWISS:** P00915**Target:** Carbonic Anhydrase I**Immunogen:** Recombinant human Carbonic Anhydrase I: 1-200/261.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.

Background: 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. They show extensive diversity in tissue distribution and in their subcellular localization. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it encodes a cytosolic protein which is found at the highest level in erythrocytes. Variants of this gene have been described in some populations. Multiple alternatively spliced variants, encoding the same protein, have been identified. Transcript variants of CA1 utilizing alternative polyA_sites have been described in literature. [provided by RefSeq, Sep 2009]**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:50-200)**IF** (1:100-500)**Reactivity:** Mouse, Rat
(predicted: Human)**Predicted
MW.:** 29 kDa**Subcellular
Location:** Secreted ,Cell membrane**— VALIDATION IMAGES —**

Sample: Lane 1: Large intestine (Mouse) Lysate at 40 ug
 Lane 2: Lung (Mouse) Lysate at 40 ug
 Lane 3: Stomach (Mouse) Lysate at 40 ug
 Lane 4: Bone (Mouse) Lysate at 40 ug
 Lane 5: Spleen (Mouse) Lysate at 40 ug
 Lane 6: Small intestine (Mouse) Lysate at 40 ug
 Lane 7: Lung (Mouse) Lysate at 40 ug
 Lane 8: Cerebrum (Mouse) Lysate at 40 ug
 Lane 9: Large intestine (Rat) Lysate at 40 ug
 Lane 10: Lung (Rat) Lysate at 40 ug
 Lane 11: Stomach (Rat) Lysate at 40 ug
 Lane 12: Bone (Rat) Lysate at 40 ug
 Lane 5: Spleen (Rat) Lysate at 40 ug
 Primary: Anti-Carbonic Anhydrase I (bsm-54409R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 30 kD
 Observed band size: 27 kD

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.