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36-2119: Anti-Crystallin Alpha B Monoclonal Antibody(Clone: CPTC-CRYAB-1)

Clonality :	Monoclonal
Clone Name :	CPTC-CRYAB-1
Application :	WB,IHC
Reactivity :	Human, Rat
Gene :	CRYAB
Gene ID :	1410
Uniprot ID :	P02511
Alternative Name :	AACRYA; Alpha B crystallin; Alpha-crystallin B chain; CRYA2; CTTP2; Heat shock 20 kD like protein; Heat shock protein beta-5; HspB5; Renal carcinoma antigen NY REN 27; Rosenthal fiber component
Isotype :	Mouse IgG2c, kappa
Immunogen Information : Recombinant human full-length CRYAB protein	

Description

Crystallins are the major proteins of the vertebrate eye lens, where they maintain the transparency and refractive index of the lens. Crystallins are divided into B-crystallin is associated with many neurological diseases, and a missense mutation in this gene has co-segregated in a family with a Desmin-related myopathy.

Product Info

Amount :	20 μg / 100 μg
Content :	200 μg/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 condition :	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.

Application Note

Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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);



Fig. 1: Formalin-fixed, paraffin-embedded human Breast stained with Crystallin Alpha B Mouse Monoclonal Antibody (CPTC-CYRAB-1).

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9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982 Email: info@abeomics.com



Fig. 2: Formalin-fixed, paraffin-embedded Rat Heart Muscle stained with Crystallin Alpha B Mouse Monoclonal Antibody (CPTC-CYRAB-1).

Fig. 3: Western Blot Analysis of HeLa cell lysate using Crystallin Alpha B Mouse Monoclonal Antibody (CPTC-CYRAB-1).

Fig. 4: SDS-PAGE Analysis Purified Crystallin Alpha B Mouse Monoclonal Antibody (CPTC-CYRAB-1). Confirmation of Purity and Integrity of Antibody



Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using Crystallin Alpha B Mouse Monoclonal Antibody (CPTC-CRYAB-1). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.