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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Cytochrome c [2.7D5] Standard Size Ab04040-3.0

Isotype and Format: Mouse IgG2b, Kappa
Clone Number: 2.7D5
Alternative Name(s) of Target: CYCS; CYC; HCS; THC4; Cytochrome c, somatic; Cytochrome c; Cyt c
UniProt Accession Number of Target Protein: P62897
Published Application(s): immunogold labeling, IP, ELISA, IF
Published Species Reactivity: Pigeon, Rat, Mouse
Immunogen: The original antibody — a secondary immune response antibody — was generated by immunizing BALB/c mice with pigeon cytochrome C covalently coupled to ovalbumin using glutaraldehyde (CYT-OVA) and later challenging them with the same immunogen (pigeon CYT-OVA).
Specificity: This antibody is specific for pigeon cytochrome c (CYT) and cross-reacts with mouse CYT. Specifically, it recognizes the region around residue 62 of native mouse CYT.
Application Notes: The binding specificity of the original format of this antibody (mouse IgG2b) was evaluated by indirect ELISA, and its binding affinity was determined by competitive ELISA. It was found to bind Pigeon CYT ~5.6 times better than Mouse CYT (Liu et al., 2000; PMID: 11257306). This antibody was used in the detection of intracellular mouse cytochrome c (cyt c) in live DO11.10 T hybridoma cells by immunofluorescent (IF) labeling. Specifically, it was found to recognize the surface around residue 62 of cyt c and bound to cyt c in fixed and permeabilized cells. Furthermore, it was used in indirect IF staining of cyt c in post-apoptotic cells and immunoprecipitation (IP) of cyt c extracted from live, apoptotic, and necrotic DO11.10 cells (Jemmerson et al., 1999; PMID: 10090746). This antibody was used in immunogold labeling to determine the subcellular localization of cytochrome-c in rat pancreatic acinar cells (Soltys et al., 2001; PMID: 11319839).
Antibody First Published in: Liu et al. Kinetic and genetic bases for the heteroclitic recognition of mouse cytochrome c by mouse anti-pigeon cytochrome c monoclonal antibodies Mol Immunol. 2000 Oct;37(14):847-59. doi: 10.1016/s0161-5890(01)00003-7 PMID:11257306
Note on publication: The original publication investigated the kinetic and genetic factors underlying the recognition of mouse cytochrome c by mouse anti-pigeon cytochrome c monoclonal antibodies, exploring the heteroclitic response during the immune response and identifying somatic mutations and Ig gene joints that affected the binding affinity and rates of the antibodies towards both mouse and pigeon cytochrome c.

Product Form

Size:

100 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.