



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Cytochrome c [2.7D5] Standard Size Ab04040-3.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2b Fc Silent™ antibody, based on the original mouse IgG2b format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2b, [Fc Silent™](#), 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 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**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.