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36-3140: Anti-SDHB (Succinate Dehydrogenase B) (Pheochromocytoma Marker) Monoclonal Antibody(Clone: SDHB/2382)

Clonality :	Monoclonal
Clone Name :	SDHB/2382
Application :	WB
Reactivity :	Human
Gene :	SDHB
Gene ID :	6390
Uniprot ID :	P21912
Alternative Name :	CWS2; DHSB; Iron-sulfur subunit of complex II; PGL4; SDH2; SDHB; SDHIP; Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial; Succinate Dehydrogenase Complex Subunit B Iron Sulfur Protein
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment (around aa 165-273) of human SDHB protein (exact sequence is proprietary)

Description

Succinate dehydrogenase (SDH) is Complex II in the mitochondria, vital for mitochondrial electron transport, as well as Krebs cycle function.Four subunits comprise the SDH protein complex: a flavochrome subunit (SDHA), an iron-sulfur protein (SDHB) and two membrane-bound subunits (SDHC and SDHD) anchored to the inner mitochondrial membrane. The SDH complex functions as a tumor suppressor. Loss of any subunit proteins lead to destabilization of the complex and tumor formation.Antibody to SDHB is helpful in the identification of phaeochromocytomas, paragangliomas and GIST.

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);

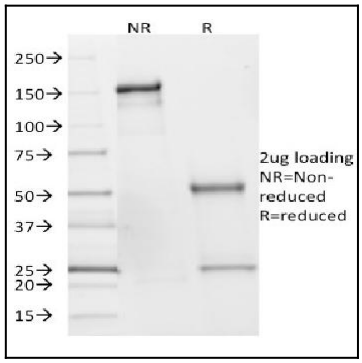


Fig. 1: SDS-PAGE Analysis of Purified SDHB Mouse Monoclonal Antibody (SDHB/2382). Confirmation of Integrity and Purity of Antibody.

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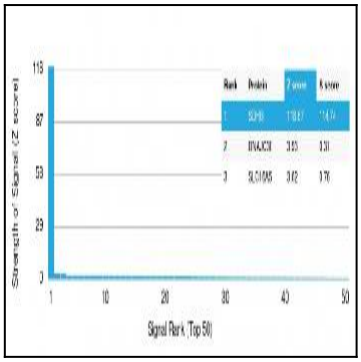


Fig. 2: Analysis of Protein Array containing more than 19,000 full-length human proteins using SDHB Mouse Monoclonal Antibody (SDHB/2382). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG 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 Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.

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