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DATA SHEET

Mouse Anti-SDHA/Succinate Dehydrogenase A [F2]: MC0363, MC0363RTU7

Intended Use: For Research Use Only

Description: Succinate dehydrogenase (SDH), also known as Complex II or succinate:quinone oxidoreductase, is a key component of the citric acid cycle and the electron transport chain. Specifically, it is involved in the oxidation of succinate. SDH consists of four subunits: SDHA, SDHB, SDHC, and SDHD. Research studies have shown that defects in SDHA cause complex II deficiency. In addition, investigators have observed reduction of SDHA in the striatum of patients with Huntington's disease, and reduction of SDHB, SDHC, and SDHD in paragangliomas and phenochromocytomas.

Specifications:

Clone:	F2
Source:	Mouse
Isotype:	IgG2a/k
Reactivity:	Human, mouse, rat
Immunogen:	Amino acids 637-664 of C-terminus of human SDHA
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, IF, IP, WB

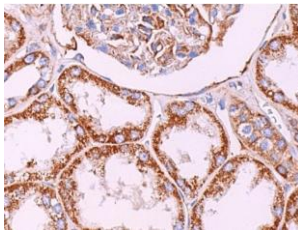
Package:

Description	Catalog No.	Size
SDHA/Succinate Dehydrogenase A [F2] Concentrated	MC0363	1 ml
SDHA/Succinate Dehydrogenase A [F2] Prediluted	MC0363RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Kidney, testis, HeLa cells
Concentrated Dilution:	50-200
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human kidney stained with anti-SDHA using DAB

References:

1. NAD+ precursor increases aerobic performance in mice. Crisol BM1, et al. Eur J Nutr. Sep 7, 2019.
2. Enzyme-mediated depletion of l-cyst(e)ine synergizes with thioredoxin reductase inhibition for suppression of pancreatic tumor growth. Kshattry S, et al. NPJ Precis Oncol. Jun 3;3:16, 2019.
3. SDHB/SDHA immunohistochemistry in pheochromocytomas and paragangliomas: a multicenter interobserver variation analysis using virtual microscopy: a Multinational Study of the European Network for the Study of Adrenal Tumors (ENS@T). Papathomas TG et al. Mod Pathol. 2015.
4. SDHA immunohistochemistry detects germline SDHA gene mutations in apparently sporadic paragangliomas and pheochromocytomas. Korpershoek E et al. J Clin Endocrinol Metab. 2011.

Orders: customercare@medaysis.com Support: techsupport@medaysis.com Tel: 510-509-3153 www.medaysis.com