# SDHA (Succinate Dehydrogenase Complex Flavoprotein Subunit A) Antibody

Mouse Monoclonal Antibody [Clone SDHA/7491]

| Catalog No | Format | Size |
|---|---|---|
| 6389-MSM1-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 6389-MSM1-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 6389-MSM1-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

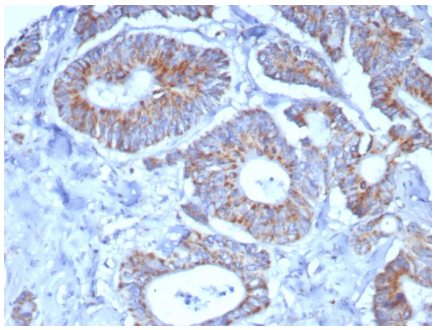
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

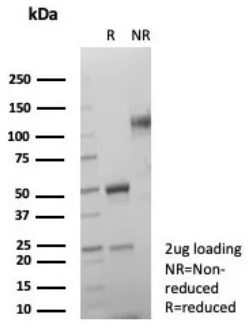
| | |
|---|---|
| **Clone** | SDHA/7491 |
| **Gene Name** | SDHA |
| **Immunogen** | Recombinant fragment (around aa 450-650) of human SDHA protein (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2 / Kappa |
| **Mol. Weight of Antigen** | 70kDa |
| **Cellular Localization** | Mitochondrion inner membrane. |
| **Species Reactivity** | Human |
| **Positive Control** | colon\|Expressed strongly in small intestine. Also expressed in prostate\|stomach and salivary gland. |

**Optimal dilution for a specific application should be determined.*

## Product Images for SDHA (Succinate Dehydrogenase Complex Flavoprotein Subunit A) Antibody



Formalin-fixed, paraffin-embedded human colon carcinoma stained with SDHA Mouse Monoclonal Antibody (SDHA/7491). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.




SDS-PAGE Analysis of Purified SDHA Mouse Monoclonal Antibody (SDHA/7491). Confirmation of Purity and Integrity of Antibody.

## Specificity & Comments

In aerobic respiration reactions, succinate dehydrogenase (SDH) catalyzes the oxidation of succinate and ubiquinone to fumarate and ubiquinol. 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. Mutations to these subunits cause mitochondrial dysfunction, corresponding to several distinct disorders. Mutations in the membrane bound components may cause hereditary paraganglioma, while SDHA mutations are associated with juvenile encephalopathy as well as Leigh syndrome, a severe neurological disorder. Inactivating mutations in SDHB correlate with inherited, but not necessarily sporadic, cases of pheochromocytoma.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% azide. Also available WITHOUT azide at 1.0mg/ml.

## Storage and Stability

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. No MSDS required.

## Research Areas

Cardiovascular, Mitochondria Marker

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.