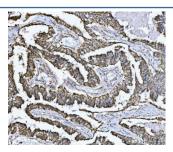


# SDHB Antibody (R30808)

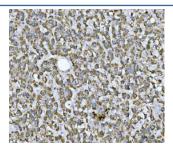
Catalog No.	Formulation	Size
R30808	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

# **Bulk quote request**

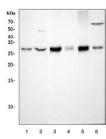
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P21912
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This SDHB antibody is available for research use only.



IHC staining of FFPE human lung adenocarcinoma tissue with SDHB antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human liver cancer tissue with SDHB antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human 293T, 2) human HepG2, 3) rat heart, 4) rat brain, 5) mouse heart and 6) mouse brain tissue lysate with SDHB antibody. Predicted molecular weight ~32 kDa.

### **Description**

Succinate Dehydrogenase Complex, Subunit B, iron sulfur protein is a protein that in humans is encoded by the SDHB gene. It is one of four protein subunits forming succinate dehydrogenase, the other three being SDHA, SDHC and SDHD. The SDHB subunit is connected to the SDHA subunit on the hydrophilic, catalytic end of the SDH complex. The entire SDHB transcript is encoded by 8 exons within approximately 40 kb by Au et al(1995). Pollard et al.(2005) stated that the nuclear-encoded Krebs cycle enzymes fumarate hydratase and succinate dehydrogenases like SDHB act as tumor suppressors, and germline mutations in these genes predispose individuals to leiomyomas and renal cancer and to paragangliomas, respectively. In affected members of families with paragangliomas-4, mutations were identified in the SDHB gene.

## **Application Notes**

The stated application concentrations are suggested starting amounts. Titration of the SDHB antibody may be required due to differences in protocols and secondary/substrate sensitivity.

#### **Immunogen**

Amino acids 42-59 (FAIYRWDPDKAGDKPHMQ-human) were used as the immunogen for this SDHB antibody.

#### **Storage**

After reconstitution, the SDHB antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.