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Anti-SURF1 Antibody

Catalog # AP51543

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q15526
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33331

Additional Information

Gene ID	6834
Other Names	SURF-1; Surfeit locus protein 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SURF1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

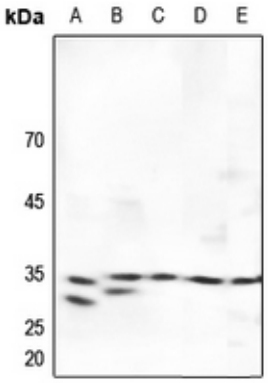
Name	SURF1
Synonyms	SURF-1
Function	Component of the MITRAC (mitochondrial translation regulation assembly intermediate of cytochrome c oxidase complex) complex, that regulates cytochrome c oxidase assembly.
Cellular Location	Mitochondrion inner membrane {ECO:0000250|UniProtKB:P09925}; Multi-pass membrane protein

References

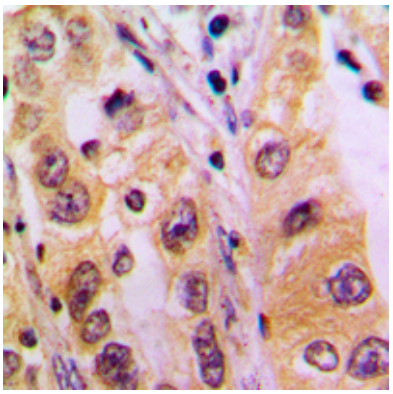
Lennard A.,et al.DNA Cell Biol. 13:1117-1126(1994).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Humphray S.J.,et al.Nature 429:369-374(2004).

Zhu Z.,et al.Nat. Genet. 20:337-343(1998).
Pequignot M.O.,et al.Hum. Mutat. 17:374-381(2001).

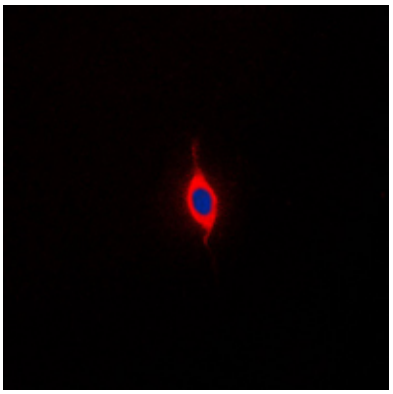
Images



Western blot analysis of SURF1 expression in HEK293T (A), Hela (B), mouse lung (C), rat liver (D), rat kidney (E) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 33; 32 kD)



Immunohistochemical analysis of SURF1 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of SURF1 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).