

For Research Use Only

CYC1 Polyclonal antibody

Catalog Number: 10242-1-AP

Featured Product

39 Publications



Basic Information

Catalog Number:

10242-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0291

GenBank Accession Number:

BC001006

GeneID (NCBI):

1537

UNIPROT ID:

P08574

Full Name:

cytochrome c-1

Calculated MW:

35 kDa

Observed MW:

35 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, pig, monkey

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human brain tissue,

IHC : human liver cancer tissue, human breast cancer tissue

Background Information

CYC1, also named as Cytochrome c-1, belongs to the cytochrome c family. Cytochrome c1 is one respiratory subunit of the 11 subunits of the cytochrome bc1 complex of the mitochondrial electron-transfer chain. It mediates the transfer of an electron from Rieske iron-sulfur protein to cytochrome c (PMID:3036122). CYC1 mediates apoptosis. In this pathway, a variety of apoptotic stimuli cause CYC1 release from mitochondria, which in turn induces a series of biochemical reactions that result in caspase activation and subsequent cell death (PMID:15189137). While CYC1 release and DNA fragmentation are unaffected by the noncleavable p75 mutant, mitochondrial morphology of dying cells is maintained, and loss of plasma membrane integrity is delayed (PMID:15186778). The protein migrated as a 35 kD band in SDS page.

Notable Publications

Author	Pubmed ID	Journal	Application
Yan Gao	36067878	Arch Biochem Biophys	WB
Benben Song	25345801	J Proteome Res	WB
Hong-Wei Wang	31629238	Chemosphere	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

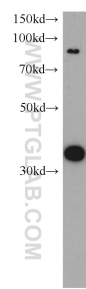
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

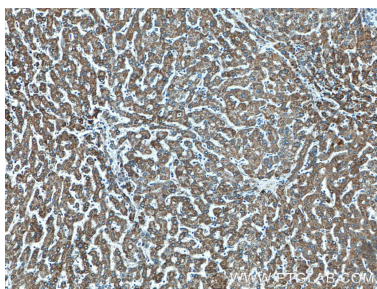
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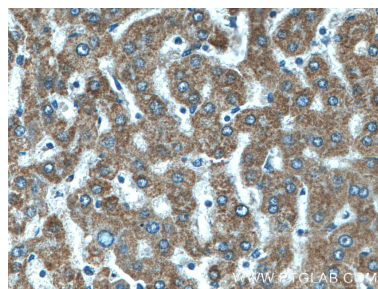
Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 10242-1-AP (CYC1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10242-1-AP (CYC1 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10242-1-AP (CYC1 antibody) at dilution of 1:200 (under 40x lens).