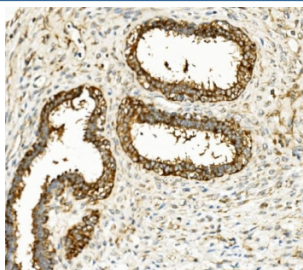


HK1 Antibody / Hexokinase 1 [clone 2I4] (RQ5659)

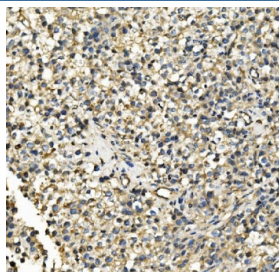
Catalog No.	Formulation	Size
RQ5659	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

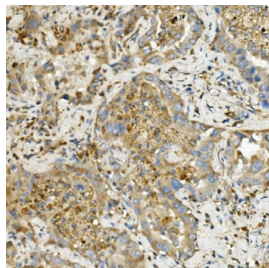
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Name	2I4
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P19367
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This HK1 antibody is available for research use only.



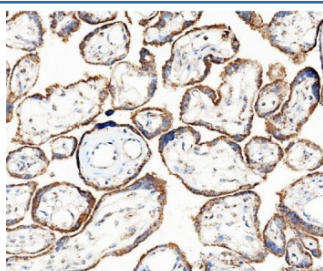
IHC staining of FFPE human breast cancer with HK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



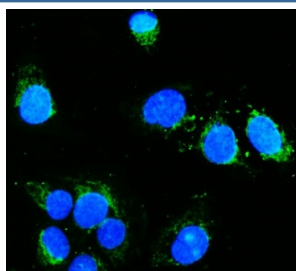
IHC staining of FFPE human testis cancer with HK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



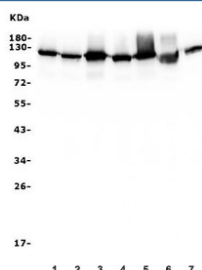
IHC staining of FFPE human lung cancer with HK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



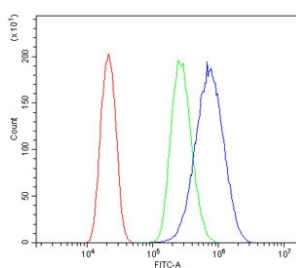
IHC staining of frozen human placenta with HK1 antibody.



Immunofluorescent staining of FFPE human HeLa cells with HK1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HeLa, 2) HEK293, 3) U-87 MG, 4) K562, 5) A549, 6) rat PC-12 and 7) mouse NIH 3T3 lysate with HK1 antibody. Predicted molecular weight ~120 kDa.



Flow cytometry testing of human PC-3 cells with HK1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HK1 antibody.

Description

Hexokinase-1 (HK1) is an enzyme that in humans is encoded by the HK1 gene on chromosome 10. It is mapped to 10q22.1. Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in several transcript variants which encode different isoforms, some of which are tissue-specific.

Application Notes

Optimal dilution of the HK1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D17-R323) was used as the immunogen for the HK1 antibody.

Storage

After reconstitution, the HK1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.