

For Research Use Only

Hexokinase 2 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 85875-1-PBS



Basic Information

Catalog Number: 85875-1-PBS	GenBank Accession Number: BC021116	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3099	CloneNo.: 250190C10
Source: Rabbit	UNIPROT ID: P52789	
Isotype: IgG	Full Name: hexokinase 2	
Immunogen Catalog Number: AG16895	Calculated MW: 102 kDa	
	Observed MW: 102-120 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human, mouse

Product Information

85875-1-PBS targets Hexokinase 2 as part of a matched antibody pair:

MP02173-1: 85875-1-PBS capture and 85875-2-PBS detection (validated in Cytometric bead array)

MP02173-2: 85875-1-PBS capture and 85875-3-PBS detection (validated in Cytometric bead array)

MP02173-3: 85875-3-PBS capture and 85875-1-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

Hexokinase 2 (HK2), a rate-limiting enzyme in the first step of glycolysis pathway, expresses at high level in cancer cells compared with normal cells. HK2 provides a new target for cancer therapy due to its pivotal role in tumor tumorigenic and metastatic process. HK1 is constitutively expressed in most mammalian adult tissues. HK2, however, although is abundantly expressed in embryonic tissues, is expressed at high levels only in limited number of adult tissues such as adipose, skeletal, and cardiac muscles. (PMID: 29305912, PMID: 28427443, PMID: 23911236).

Storage

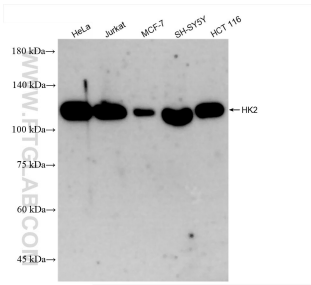
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

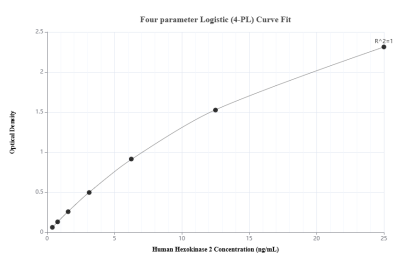
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

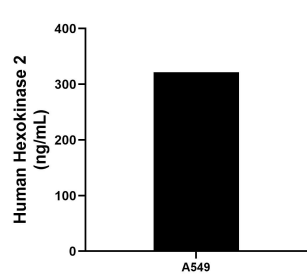
Selected Validation Data



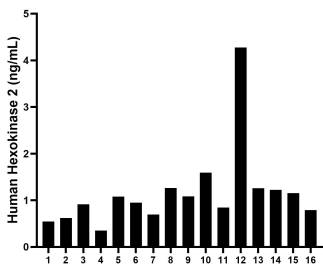
Various lysates were subjected to SDS PAGE followed by western blot with 85875-1-RR (Hexokinase 2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85875-1-PBS in a different storage buffer formulation.



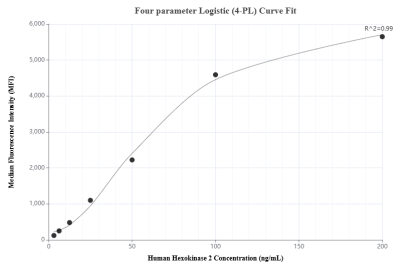
Sandwich ELISA standard curve of MP02173-3, Human Hexokinase 2 Recombinant Matched Antibody Pair - PBS only. 85875-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag16895. 85875-1-PBS was HRP conjugated as the detection antibody. Range: 0.391-25 ng/mL



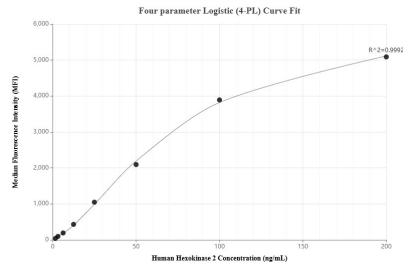
The mean Hexokinase 2 concentration was determined to be 321.70 ng/mL in A549 cell extract based on a 1.3 mg/mL extract load.



Serum of sixteen individual healthy human donors was measured. The human Hexokinase 2 concentration of detected samples was determined to be 1.16 ng/mL with a range of 0.35 - 4.27 ng/mL



Cytometric bead array standard curve of MP02173-2, Hexokinase 2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85875-1-PBS. Detection antibody: 85875-3-PBS. Standard: Ag16895. Range: 3.125-200 ng/mL



Cytometric bead array standard curve of MP02173-1, Hexokinase 2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85875-1-PBS. Detection antibody: 85875-2-PBS. Standard: Ag16895. Range: 1.563-200 ng/mL