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Human Hexokinase 1/2/3 antibody

Catalog Number: ATGA0495

PRODUCT INFORMATION

Catalog number

ATGA0495

Clone No.

AT4C12

Product type

Monoclonal Antibody

UnitProt No.

P52790

NCBI Accession No.

NP 002106

Alternative Names

EC 2.7.1.1, Hexokinase 3, Hexokinase type III, HK III, HK3, HXK3

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Hexokinase1,2,3 (1-923aa) purified from E. coli.

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

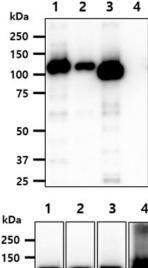
Hexokinase is the first enzyme in the glycolytic pathway, catalyzing the transfer of a phosphoryl group from ATP to glucose to form glucose-6-phosphate and ADP. In mammals, four distinct enzymes-types 1 to 4 hexokinases-have been identified. The enzyme is found in most cells, but there is tissue specificity for the particular type of hexokinase. Hexokinase 3 lacks the hydrophobic N-terminal sequence critical for targeting to mitochondria. Hexpkinase 3 may have anabolic functions, providing H6P for glycogen or lipid synthesis.

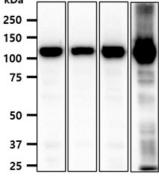
General References

Furuta H. et al., (1996) Genomics. 36(1): 206-9. Jon E. et al., (2003) J.Exp Biology. 206: 2049-2057.

DATA

Western blot analysis (WB)





The recombianat protein (20ng) of Hexokinase four isoform were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Hexokinase1,2,3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1 : Recombinant human Hexokinase 1 Lane 2 : Recombinant human Hexokinase 2 Lane 3 : Recombinant human Hexokinase 3 Lane 4 : Recombinant human Hexokinase 4

The cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Hexokinase1,2,3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: Jurkat cell lysate Lane 3.: K562 cell lysate

Lane 4.: Mouse brain tissue lysate

