

## Product datasheet for **AM03129PU-N**

### Hexokinase II (HK2) (1-917) Mouse Monoclonal Antibody [Clone ID: 1A7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1A7
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western blot: 1:1,000 ~ 1:3,000, 1:2,000 as starting dilution.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human Hexokinase 2 (1-917aa) purified from <i>E. coli</i>
Specificity:	This antibody detects Hexokinase 1, 2.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	hexokinase 2
Database Link:	<a href="#">Entrez Gene 3099 Human P52789</a>



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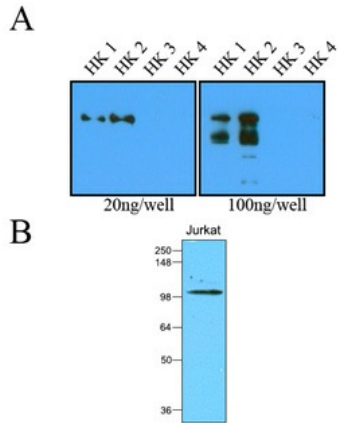
**Background:**

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. These enzymes are found in most cells, but there is tissue specificity for the particular type of hexokinase. Hexokinase 2 is found in the skeletal muscle and includes hydrophobic N-terminal sequence capable of targeting the hexokinase to mitochondria.

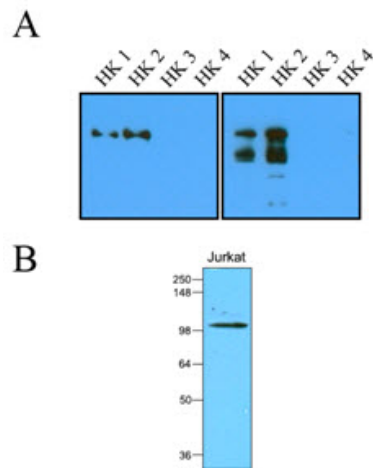
**Synonyms:**

Hexokinase type II, Muscle form hexokinase, HK2, HKII

**Product images:**



A): Recombinant protein (20ng or 100ng) of Hexokinase four isoform were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Hexokinase I, II (1:1000). (B): Cell lysates of Jurkat (35ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Hexokinase I, II (1:2,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection



Western blot analysis (A): Recombinant protein (20ng or 100ng) of Hexokinase four isoform were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Hexokinase I, II (1:1000). (B): Cell lysates of Jurkat (35ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Hexokinase I, II (1:2,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection