

Datasheet for ABIN392753  
**anti-HK3 antibody (C-Term)**[Go to Product page](#)

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## Overview

Quantity:	400 µL
Target:	HK3
Binding Specificity:	AA 760-789, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HK3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This HK3 (Hexokinase III) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 760-789 amino acids from the C-terminal region of human HK3 (Hexokinase III).
Clone:	RB3916
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## Target Details

Target:	HK3
Alternative Name:	HK3 (Hexokinase III) ( <a href="#">HK3 Products</a> )

## Target Details

Background:	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the $\gamma$ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The AGC kinase group consists of 63 kinases including the cyclic nucleotide-regulated protein kinase (PKA & PKG) family, the diacylglycerol-activated/phospholipid-dependent protein kinase C (PKC) family, the related to PKA and PKC (RAC/Akt) protein kinase family, the kinases that phosphorylate G protein-coupled receptors family (ARK), and the kinases that phosphorylate ribosomal protein S6 family (RSK).
Molecular Weight:	99025
Gene ID:	3101
NCBI Accession:	<a href="#">NP_002106</a>
UniProt:	<a href="#">P52790</a>
Pathways:	<a href="#">Carbohydrate Homeostasis</a> , <a href="#">Warburg Effect</a>

## Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

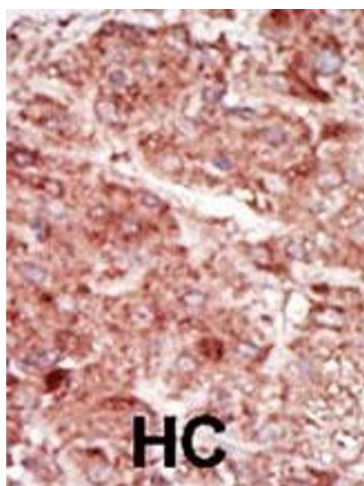
## Handling

Expiry Date: 6 months

## Publications

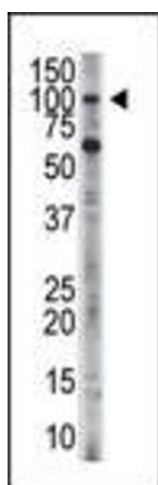
Product cited in: Nasr, Mukhopadhyay, Zhang, Katzenstein: "Immunohistochemical markers in diagnosis of papillary thyroid carcinoma: Utility of HBME1 combined with CK19 immunostaining." in: **Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc**, Vol. 19, Issue 12, pp. 1631-7, (2006) ([PubMed](#)).

## Images



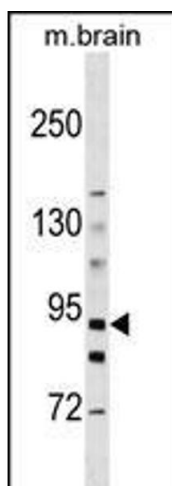
### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



### Western Blotting

**Image 2.** The anti-HK3 Pab (ABIN392753 and ABIN2842205) is used in Western blot to detect HK3 in HL-60 cell lysate.



### Western Blotting

**Image 3.** HK3 Antibody (ABIN392753 and ABIN2842205) western blot analysis in mouse brain tissue lysates (35  $\mu$ g/lane). This demonstrates the HK3 antibody detected the HK3 protein (arrow).