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Datasheet for ABIN6264260

anti-PKM antibody (Internal Region)

2 Images

1 Publication

Overview

Quantity:	100 µL
Target:	PKM
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKM antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PKM2, corresponding to a region within the internal amino acids.
Isotype:	IgG
Specificity:	PKM2 Antibody detects endogenous levels of total PKM2.
Predicted Reactivity:	Pig,Bovine,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	PKM
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Target Details

Alternative Name:	PKM (PKM Products)
Background:	<p>Description: Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival.</p> <p>Gene: PKM</p>
Molecular Weight:	58 kDa
Gene ID:	5315
UniProt:	P14618
Pathways:	Warburg Effect

Application Details

Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

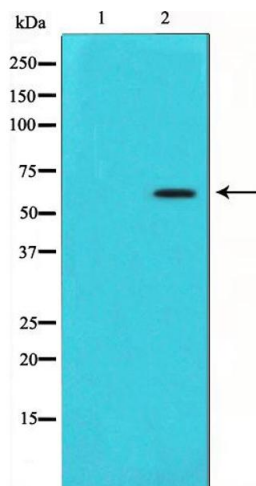
Product cited in:

Deng, Bu, Mo, Lv, Song, Xiao, Dan, Yang: "Huang Gan Formula Eliminates the Oxidative Stress Effects of Advanced Oxidation Protein Products on the Divergent Regulation of the Expression of AGEs Receptors via the JAK2/STAT3 Pathway." in: **Evidence-based complementary and alternative medicine : eCAM**, Vol. 2017, pp. 4520916, (2018) ([PubMed](#)).

Chai, Bai, Li, Chen, Zhang: "Biological functions of lung cancer cells are suppressed in co-culture with mesenchymal stem cells isolated from umbilical cord." in: **Experimental and therapeutic medicine**, Vol. 15, Issue 1, pp. 1076-1080, (2018) ([PubMed](#)).

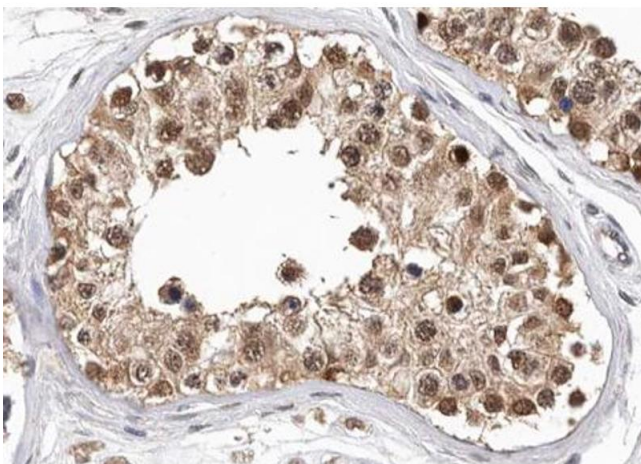
Wang, Li, Chen, Yang: "Umbilical cord-derived mesenchymal stem cells can inhibit the biological functions of melanoma A375 cells." in: **Oncology reports**, Vol. 40, Issue 1, pp. 511-517, (2018) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of PKM2 expression in HeLa cell lysate, The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6268782 at 1/100 staining human testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.