

Rabbit DYRK1A/B Polyclonal Antibody | anti-DYRK1A/B antibody

Phospho-DYRK1A/B (Tyr321/Tyr273) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329711	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DYRK1A/B; Polyclonal Antibody; Phospho-DYRK1A/B (Tyr321/Tyr273) Antibody; ;Dual specificity tyrosine phosphorylation regulated kinase; Dual specificity tyrosine (Y) phosphorylation regulated kinase 1A; Dual specificity tyrosine phosphorylation regulated kinase 1; Dual specificity tyrosine phosphorylation regulated kinase 1A; Dual specificity tyrosine-phosphorylation-regulated kinase 1A; Dual specificity YAK 1 related kinase; Dual specificity YAK1 related kinase; Dual specificity YAK1-related kinase; DYRK1A_HUMAN; DYRK 1; DYRK 1A; DYRK; DYRK1; Dyrk1a; DYRK1A; hMNB; HP 86; HP86; Minibrain (Drosophila) homolog; Minibrain homolog; Minibrain; Drosophila; homolog of; MNB; MNB protein kinase; Mnb protein kinase homolog hp86; Serine/threonine-specific; MNB/DYRK protein kinase; MNBH; MRD7; OTTHUMP00000109090; OTTHUMP00000109091; OTTHUMP00000109094; OTTHUMP00000174799; Protein kinase minibrain homolog; Serine/threonine kinase MNB; AOMS3; Dual specificity tyrosine (Y) phosphorylation regulated kinase 1B; Dual specificity tyrosine phosphorylation regulated kinase 1B; Dual specificity tyrosine-phosphorylation-regulated kinase 1B; DYRK 1B; DYRK1A; DYRK1B; DYRK1B_HUMAN; DYRK 1B; Dyrk1b; Minibrain related kinase; Minibrain-related kinase; MIRK; Mirk protein kinase; anti-DYRK1A/B antibody

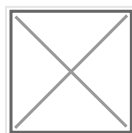
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-DYRK1A/B (Tyr321/Tyr273) Antibody detects endogenous levels of DYRK1A/B only when phosphorylated at Tyr321/273. Tissue Specificity: Highest expression in skeletal muscle, testis, heart and brain with little expression in colon or lung. Expressed in a variety of tumor cell lines.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-DYRK1A/B antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DYRK1A/B around the phosphorylation site of Tyr321/273.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylated on tyrosine residues. Phosphorylated by MAP kinase. Tyrosine phosphorylation may be required for dimerization.
Subunit Structure	Dimer. Interacts with DCOHM, MAP2K3/MKK3, RANBP9 and TCF1/HNF1A. Part of a complex consisting of RANBP9, RAN, DYRK1B and COPS5. Interacts with DCAF7.
Similarity	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MNB/DYRK subfamily.
Subcellular Location	Nucleus.

Preparation and Storage

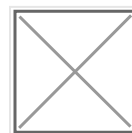
Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



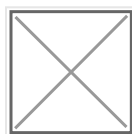
IHC (Immunohistochemistry)

At 1/200 staining Human liver cancer 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 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



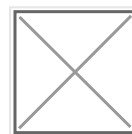
IHC (Immunohistochemistry)

At 1/200 staining Mouse kidney 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 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



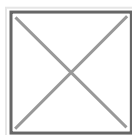
IHC (Immunohistochemistry)

At 1/200 staining Rat lung 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 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Human normal tissues adjacent to pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of DYRK1A/B (Phospho-Tyr321/273) using EGF treated K562 whole cell lysates. -/+ means absence or presence of N peptide (non-phospho peptide) and P peptide (phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-DYRK1A/B antibody

Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activities. Enhances the transcriptional activity of TCF1/HNF1A and FOXO1. Inhibits epithelial cell migration. Mediates colon carcinoma cell survival in mitogen-poor environments. Inhibits the SHH and WNT1 pathways, thereby enhancing adipogenesis. In addition, promotes expression of the gluconeogenic enzyme glucose-6-phosphatase (G6PC).

NCBI AND UNIPROT INFORMATION

NCBI GI #	18765758
NCBI GeneID	1859
NCBI Accession #	NP_001387.2
NCBI GenBank Nucleotide #	NM_001396.3
UniProt Accession #	Q13627; Q9Y463
Molecular Weight	85,584 Da
NCBI Official Full Name	dual specificity tyrosine-phosphorylation-regulated kinase 1A isoform 1
NCBI Official Synonym Full Names	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A
NCBI Official Symbol	DYRK1A
NCBI Official Synonym Symbols	MNB; DYRK; HP86; MNBH; MRD7; DYRK1

NCBI Protein Information	dual specificity tyrosine-phosphorylation-regulated kinase 1A; hMNB; MNB/DYRK protein kinase; serine/threonine kinase MNB; mnbp protein kinase homolog hp86; protein kinase minibrain homolog; dual specificity YAK1-related kinase; serine/threonine-specific p
UniProt Protein Name	Dual specificity tyrosine-phosphorylation-regulated kinase 1A
UniProt Gene Name	DYRK1A
UniProt Synonym Gene Names	DYRK; MNB; MNBH; MNBH; hMNB
UniProt Entry Name	DYR1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/dyrk1a-b-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329711>