

Rabbit DYRK2/4 Polyclonal Antibody | anti-DYRK2/4 antibody

Phospho-DYRK2/4 (Tyr382/Tyr264) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329712	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DYRK2/4; Polyclonal Antibody; Phospho-DYRK2/4 (Tyr382/Tyr264) Antibody; 1810038L18Rik; Dual specificity tyrosine (Y) phosphorylation regulated kinase 2; Dual specificity tyrosine phosphorylation regulated kinase 2; Dual specificity tyrosine-phosphorylation-regulated kinase 2; DYRK2; DYRK2_HUMAN; EC 2.7.12.1; FLJ21217; FLJ21365; Dual specificity tyrosine phosphorylation regulated kinase 4; Dual specificity tyrosine-phosphorylation-regulated kinase 4; Dyrk4; DYRK4_HUMAN; anti-DYRK2/4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-DYRK2/4 (Tyr382/Tyr264) Antibody detects endogenous levels of DYRK2/4 only when phosphorylated at Y382/Y264. Tissue Specificity: Testis, after the onset of spermatogenesis.
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-DYRK2/4 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DYRK2/4 around the phosphorylation site of Y382/Y264.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylation on Tyr-264 in the activation loop is required for kinase activity.
Subunit Structure	Component of an E3 ligase complex containing DYRK2, EDD/UBR5, DDB1 and DCAF1 (EDVP complex). Interacts directly with EDD/UBR5, DDB1 and DCAF1. Interacts with SIAH2 and MDM2. Interacts with MAP3K10 and NFATC1. May also interact with CCNL2.
Similarity	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MNB/DYRK subfamily.
Subcellular Location	Cytoplasm. Cytoplasm. 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 pancreas 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)
Staining Rat intestinal 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.



WB (Western Blot)
Western blot analysis of DYRK2/4 (Phospho-Tyr382/264) using UV treated K562 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-DYRK2/4 antibody	Possible non-essential role in spermiogenesis.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503427
NCBI GeneID	8445
NCBI Accession #	NP_006473
NCBI GenBank Nucleotide #	NM_003583.3
UniProt Accession #	Q92630; Q9NR20
Molecular Weight	59,715 Da
NCBI Official Full Name	dual specificity tyrosine-phosphorylation-regulated kinase 2 isoform 1
NCBI Official Synonym Full Names	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
NCBI Official Symbol	DYRK2
NCBI Protein Information	dual specificity tyrosine-phosphorylation-regulated kinase 2
UniProt Protein Name	Dual specificity tyrosine-phosphorylation-regulated kinase 2
UniProt Gene Name	DYRK2
UniProt Entry Name	DYRK2_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.