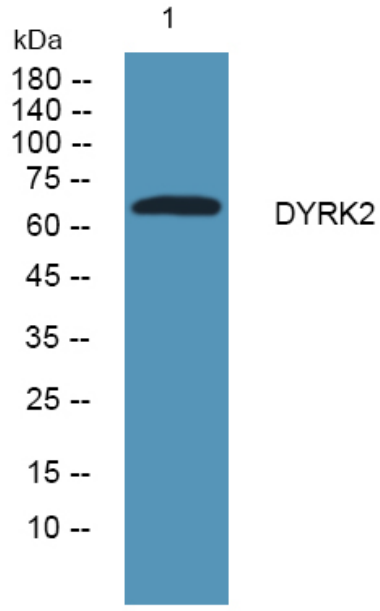
DYRK2 Polyclonal Antibody

Catalog No	YP-Ab-04892
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	DYRK2
Immunogen	Synthesized peptide derived from human protein . at AA range: 320-400
Specificity	DYRK2 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Dual specificity tyrosine-phosphorylation-regulated kinase 2;DYRK 2; EC:2.7.12.1;DYRK2;Dual specificity tyrosine-phosphorylation-regulated kinase 2 (EC 2.7.12.1)
Observed Band	66kD
Calculated Molecular Weight	66kD
Cell Pathway	Cytoplasm. Nucleus. Translocates into the nucleus following DNA damage.
Tissue Specificity	Testis, after the onset of spermatogenesis.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,cofactor:Manganese.,enzyme regulation:Autophosphorylates on tyrosine residues.,function:Role in the regulation of cellular growth and/or development. Regulates TP53 by phosphorylation on Ser-46 to induce apoptosis in response to DNA damage, functioning downstream of ATM. Inactivates GYS1 by phosphorylation at Ser-641, and potentially also a second phosphorylation site, thus regulating glycogen synthesis. Phosphorylates EIF2B5 at Ser-544, enabling its subsequent phosphorylation and inhibition by GSK3, and may play a more general role in the priming of GSK3 substrates.,PTM:Phosphorylated on serine/threonine residues.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr

	protein kinase family. MNB/DYRK subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:Translocates into th
Background	DYRK2 belongs to a family of protein kinases whose members are presumed to be involved in cellular growth and/or development. The family is defined by structural similarity of their kinase domains and their capability to autophosphorylate on tyrosine residues. DYRK2 has demonstrated tyrosine autophosphorylation and catalyzed phosphorylation of histones H3 and H2B in vitro. Two isoforms of DYRK2 have been isolated. The predominant isoform, isoform 1, lacks a 5' terminal insert. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from DU145 cells, primary antibody was diluted at 1:1000, 4°over night