

Rabbit RIOK1 Polyclonal Antibody | anti-RIOK1 antibody

RIOK1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328160	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

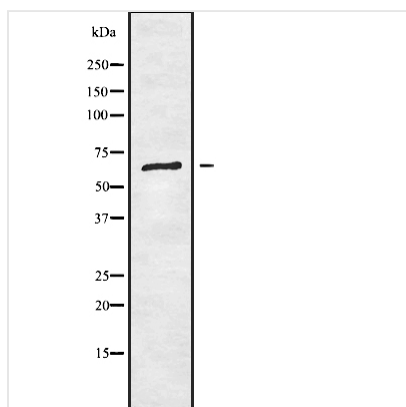
PRODUCT SYNONYMS

RIOK1; Polyclonal Antibody; RIOK1 Antibody; AD034; bA288G3.1; RIO kinase 1 (yeast); RIO kinase 1; RIOK1_HUMAN; Serine/threonine-protein kinase rio1; anti-RIOK1 antibody

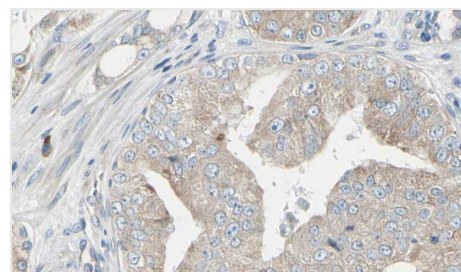
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RIOK1 antibody detects endogenous levels of total RIOK1
Purity/Purification	Peptide affinity purified
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	568
Applicable Applications for anti-RIOK1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RIOK1, corresponding to a region within the C-terminal amino acids.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of RIOK1 using HeLa whole cell lysates


IHC (Immunohistochemistry)

AAA328160 at 1/100 staining Human prostate tissue 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti- RIOK1 antibody	Function: Involved in the final steps of cytoplasmic maturation of the 40S ribosomal subunit. Involved in processing of 18S-E pre-rRNA to the mature 18S rRNA. Required for the recycling of NOB1 and PNO1 from the late 40S precursor (PubMed:22072790). The association with the very late 40S subunit intermediate may involve a translation-like checkpoint point cycle preceeding the binding to the 60S ribosomal subunit (By similarity). Despite the protein kinase domain is proposed to act predominantly as an ATPase (By similarity). The catalytic activity regulates its dynamic association with the 40S subunit (By similarity). In addition to its role in ribosomal biogenesis acts as an adapter protein by recruiting NCL/nucleolin the to PRMT5 complex for its symmetrical methylation (PubMed:21081503). Subunit Structure: Associates with the precursor of the 40S ribosome subunit. Interacts (via its N-terminus) with PRMT5 (via its N-terminus) (PubMed:22072790, PubMed:21081503). Interacts with WDR77 (PubMed:22072790). Found in a PRMT5 complex composed of PRMT5, WDR77 and RIOK1 (PubMed:21081503). Interacts (via its C-terminus) with NCL; this interaction targets NCL for PRMT5 methylation (PubMed:21081503). Similarity: Belongs to the protein kinase superfamily. RIO-type Ser/Thr kinase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	23510356
NCBI GeneID	83732
NCBI Accession #	NP_113668.2
NCBI GenBank Nucleotide #	NM_031480.2
UniProt Accession #	Q9BRS2; Q8NDC8; Q96NV9; B2RB28
Molecular Weight	66kDa
NCBI Official Full Name	serine/threonine-protein kinase RIO1 isoform 1
NCBI Official Synonym Full Names	RIO kinase 1
NCBI Official Symbol	RIOK1
NCBI Official Synonym Symbols	RIO1; AD034; RRP10; bA288G3.1
NCBI Protein Information	serine/threonine-protein kinase RIO1
UniProt Protein Name	Serine/threonine-protein kinase RIO1
UniProt Gene Name	RIOK1

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/riok1-antibody-immunohistochemistry-western-blot-elisa/328160>