

## Anti-Phospho-KOR-1 (S369) OPRK1 Antibody

Catalog Number: A02906S369-1

### About OPRK1

Binds with high affinity to RNA molecules that contain AU-rich elements (AREs) found within the 3'-UTR of many proto-oncogenes and cytokine mRNAs. Also binds to double- and single-stranded DNA sequences in a specific manner and functions as a transcription factor. Each of the RNA-binding domains specifically can bind solely to a single-stranded non-monotonous 5'-UUAG-3' sequence and also weaker to the single-stranded 5'-TTAGGG-3' telomeric DNA repeat. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats. Binding of RRM1 to DNA inhibits the formation of DNA quadruplex structure which may play a role in telomere elongation. May be involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. May play a role in the regulation of the rhythmic expression of circadian clock core genes. Directly binds to the 3'UTR of CRY1 mRNA and induces CRY1 rhythmic translation. May also be involved in the regulation of PER2 translation.

Kajita Y., J. Biol. Chem. 270:22167-22175(1995).

Dempsey L.A., Genomics 49:378-384(1998).

Tolnay M., Biochem. J. 338:417-425(1999).

Grosset C., Cell 103:29-40(2000)

### Overview

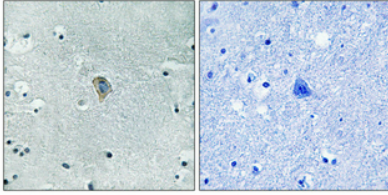
Product Name	Anti-Phospho-KOR-1 (S369) OPRK1 Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Phospho-KOR-1 (S369) OPRK1 Antibody catalog # A02906S369-1. Tested in ELISA, IHC-P, WB applications. This antibody reacts with Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P41145

### Technical Details

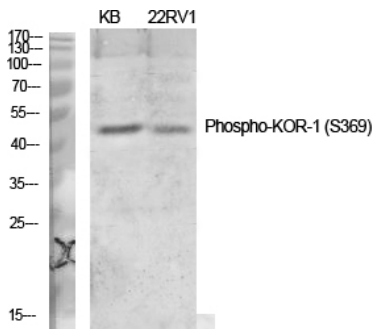
Immunogen	Synthesized peptide derived from human KOR-1 around the phosphorylation site of S369.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster

Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:10000</p>

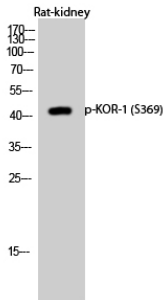
## Anti-Phospho-KOR-1 (S369) OPRK1 Antibody (A02906S369-1) Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of various cells using Phospho-KOR-1 (S369) Polyclonal Antibody diluted at 1:1000



Western blot analysis of Rat-kidney cells using Phospho-KOR-1 (S369) Polyclonal Antibody diluted at 1:1000

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