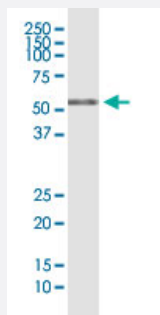


RIOK3 monoclonal antibody (M01), clone 4A12-1D2

Catalog # H00008780-M01

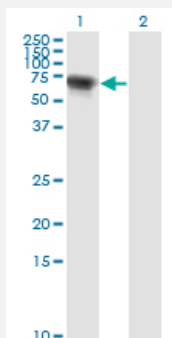
Size 100 ug

Applications



Western Blot (Cell lysate)

RIOK3 monoclonal antibody (M01), clone 4A12-1D2. Western Blot analysis of RIOK3 expression in MCF-7.

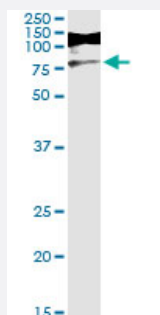


Western Blot (Transfected lysate)

Western Blot analysis of RIOK3 expression in transfected 293T cell line by RIOK3 monoclonal antibody (M01), clone 4A12-1D2.

Lane 1: RIOK3 transfected lysate(59.1 KDa).

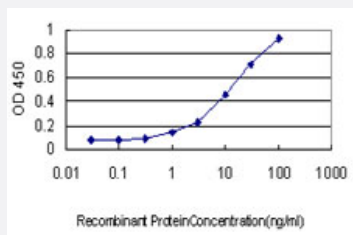
Lane 2: Non-transfected lysate.



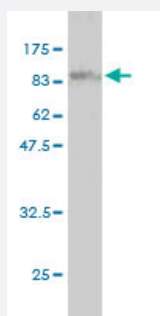
Immunoprecipitation

Immunoprecipitation of RIOK3 transfected lysate using anti-RIOK3 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with RIOK3 MaxPab rabbit polyclonal antibody.

Sandwich ELISA (Recombinant protein)



Detection limit for recombinant GST tagged RIOK3 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (82.5 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant RIOK3.
Immunogen	RIOK3 (AAH39729, 1 a.a. ~ 516 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MDLVGVASPEPGTAAAWGPSKCPWAIPQNTISCSLADVMSEQLAKELQLEEEAAVFPEVAVAE GPFITGENIDTSSDLMLAQMLQMEYDREYDAQLRREEKKFNGDSKVSISFENYRKVHPYEDSDSS EDEVDWQDTRDDPYRPAKPVPTPKKGFIGKGKDITTKHDEVVCGRKNTARMENFAPEFQVGDGI GMDLKLSNHVFNALKQHAYSEERRSARLHEKKEHSTA EKAVDPKTRLLMYKMVNSGMLETITGCI STGKESVVFHAYGGSMEDKEDSKVIPTECAIKVFKTTLNEFKNRDKYKDDFRFKDRFSKLNPRK IIRMWAEKEMHNLARMQRAGIPCPTVLLKKHILVMSFIGHDQVPAPKLKEVKLNSEEMKEAYYQT LHLMRQLYHECTLVHADLSEYNMLWHAGKVWLIDVSQSVEPTHPHGLEFLFRDCRNVSQKGGVK EALSERELFNAVSGLNITADNEADFLAEIALEKMNEHDHVQKNRKAASFLKDDGDPPLLYDE
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (82.5 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

RIOK3 monoclonal antibody (M01), clone 4A12-1D2. Western Blot analysis of RIOK3 expression in MCF-7.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of RIOK3 expression in transfected 293T cell line by RIOK3 monoclonal antibody (M01), clone 4A12-1D2.

Lane 1: RIOK3 transfected lysate(59.1 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of RIOK3 transfected lysate using anti-RIOK3 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with RIOK3 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RIOK3 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — RIOK3

Entrez GeneID[8780](#)**GeneBank Accession#**[BC039729](#)**Protein Accession#**[AAH39729](#)

Gene Name	RIOK3
Gene Alias	DKFZp779L1370, SUDD
Gene Description	RIO kinase 3 (yeast)
Omim ID	603579
Gene Ontology	Hyperlink
Gene Summary	This gene was identified by the similarity of its product to the Aspergillus nidulans SUDD protein, an extragenic suppressor of the heat-sensitive bimD6 mutation that fails to attach properly to the spindle microtubules at a restrictive temperature. The specific function of this gene has not yet been determined. [provided by RefSeq]
Other Designations	homolog of the Aspergillus nidulans sudD gene product sudD (suppressor of bimD6, Aspergillus nidulans) homolog sudD suppressor of Aspergillus nidulans bimD6 homolog sudD suppressor of bimD6 homolog

Publication Reference

- [The atypical protein kinase RIOK3 contributes to glioma cell proliferation/survival, migration/invasion and the AKT/mTOR signaling pathway.](#)

Zhang T, Ji D, Wang P, Dong L, Jin L, Shi H, Liu X, Meng Q, Yu R, Gao S.

Cancer Letters 2018 Feb; 415:151.

Application: WB-Ce, WB-Ti, Human, Human glioma tissues, U251 cells

- [Hypoxic regulation of RIOK3 is a major mechanism for cancer cell invasion and metastasis.](#)

Singleton DC, Rouhi P, Zois CE, Haider S, Li JL, Kessler BM, Cao Y, Harris AL.

Oncogene 2015 Sep; 34(36):4713.

Application: IF, WB-Tr, Human, MDA-MB-231 cells

- [Genomic alterations link Rho family of GTPases to the highly invasive phenotype of pancreas cancer.](#)

Kimmelman AC, Hezel AF, Aguirre AJ, Zheng H, Paik JH, Ying H, Chu GC, Zhang JX, Sahin E, Yeo G, Ponugoti A, Nabioullin R, Deroo S, Yang S, Wang X, McGrath JP, Protopopova M, Ivanova E, Zhang J, Feng B, Tsao MS, Redston M, Protopopov A, Xiao Y, Futreal PA,.

PNAS 2008 Dec; 105(49):19372.

Application: WB-Ce, Human, Human pancreatic ductal cells (HPDE)