

## Anti-FoxO1a Rabbit Monoclonal Antibody

Catalog Number: M00073

### About FOXO1

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

### Overview

|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-FoxO1a Rabbit Monoclonal Antibody                                                                                                                   |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                        |
| Description          | Boster Bio Anti-FoxO1a Rabbit Monoclonal Antibody catalog # M00073. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat. |
| Application          | IF, IHC, ICC, WB                                                                                                                                         |
| Clonality            | Monoclonal CIA-6                                                                                                                                         |
| Formulation          | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                      |
| 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           | Q12778                                                                                                                                                   |

### Technical Details

|                     |                                                                                                                                                                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen           | A synthesized peptide derived from human FoxO1a                                                                                                                                                                                                                                                                                                |
| Isotype             | Rabbit IgG                                                                                                                                                                                                                                                                                                                                     |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                         |
| Concentration       | Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.                                                                                                                                                                                                                                                   |
| Purification        | Affinity-chromatography                                                                                                                                                                                                                                                                                                                        |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows: |

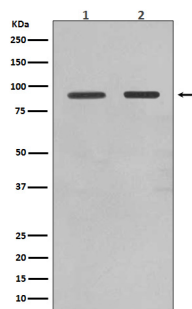
Boster Bio's internal QC testing used:

WB 1:1000-1:2000

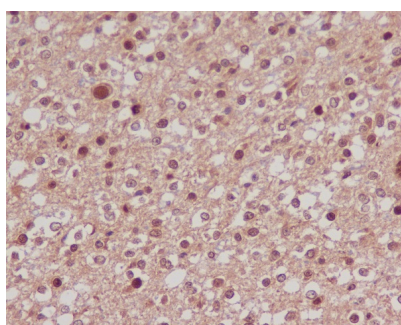
IHC 1:50-1:200

ICC/IF 1:50-1:200

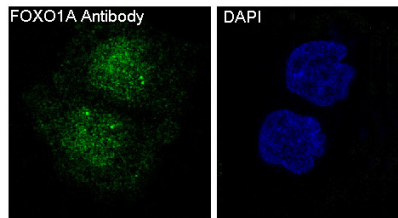
## Anti-FoxO1a Rabbit Monoclonal Antibody (M00073) Images



Western blot analysis of FoxO1a expression in (1)C6 cell lysate; (2)PC-12 cell lysate.



Immunohistochemical analysis of paraffin-embedded human brain carcinoma, using FoxO1a Antibody.



Immunofluorescent analysis of HeLa cells, using FoxO1a Antibody .

## 2 Publications Citing This Product

1. PubMed ID: 31836014, Li L,Zhao H,Chen B,Fan Z,Li N,Yue J,Ye Q.FXR activation alleviates tacrolimus-induced post-transplant diabetes mellitus by regulating renal gluconeogenesis and glucose uptake.J Transl Med.2019 Dec 13;17(1):418.doi:10.1186/s12967-019-02170-5.PMID:31836014;PMCID:PMC6909577.

2. PubMed ID: 24862853, Dong P, Mai Y, Zhang Z, Mi L, Wu G, Chu G, Yang G, Sun S. Acta Biochim Biophys Sin (Shanghai). 2014 Jul;46(7):565-71. Doi: 10.1093/Abbs/Gmu043. Epub 2014 May 26. Mir-15A/B Promote Adipogenesis In Porcine Pre-Adipocyte Via Repressing Foxo1.

Visit [bosterbio.com/anti-foxo1a-rabbit-monoclonal-antibody-m00073-boster.html](http://bosterbio.com/anti-foxo1a-rabbit-monoclonal-antibody-m00073-boster.html) to see all 2 publications.

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