

FOXO4 Rabbit mAb

Catalog No: #49279

Package Size: #49279-1 50ul #49279-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

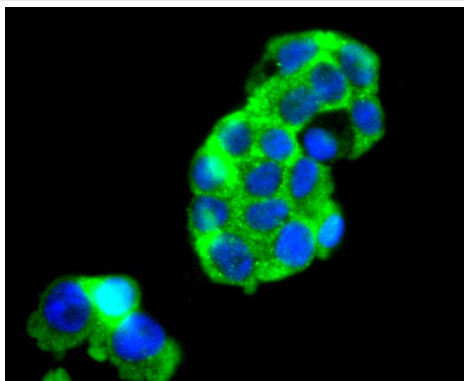
Description

| | |
|-----------------------|--|
| Product Name | FOXO4 Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | JJ09-11 |
| Purification | ProA affinity purified |
| Applications | WB, ICC/IF, IP, FC |
| Species Reactivity | Hu, Ms, Rt |
| Immunogen Description | recombinant protein |
| Other Names | AFX antibody AFX1 antibody Afxh antibody ALL1-fused gene from X chromosome antibody Fork head domain transcription factor AFX1 antibody Forkhead box O4 antibody Forkhead box protein O4 antibody FOXO 4 antibody Foxo4 antibody FOXO4_HUMAN antibody MGC117660 antibody MGC120490 antibody Mixed lineage leukemia, translocated to, 7 antibody MLLT7 antibody Myeloid/lymphoid or mixed lineage leukemia (trithorax homolog, Drosophila); translocated to, 7 antibody Myeloid/lymphoid or mixed lineage leukemia, translocated to, 7 antibody RGD1561201 antibody |
| Accession No. | Swiss-Prot#:P98177 |
| Uniprot | P98177 |
| GeneID | 4303; |
| Calculated MW | 54 kDa |
| Formulation | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| Storage | Store at -20°C |

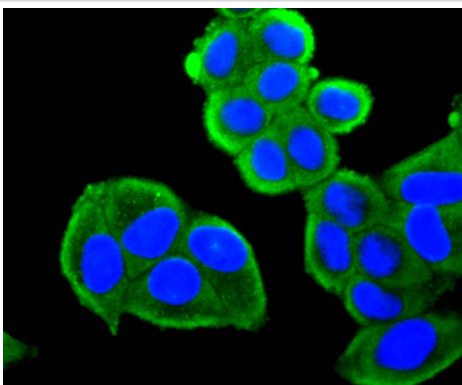
Application Details

WB: 1:1,000ICC: 1:100-1:500FC: 1:50-1:100

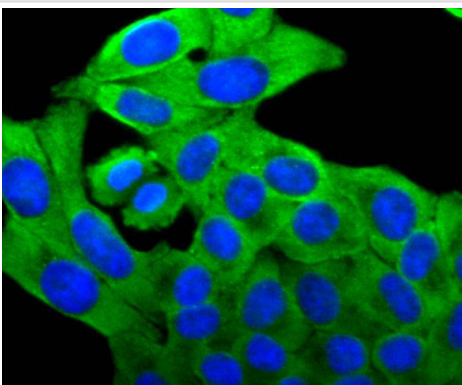
Images



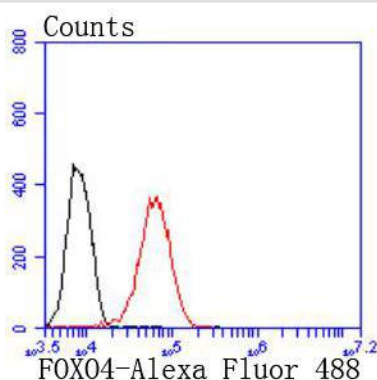
ICC staining FOXO4 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining FOXO4 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining FOXO4 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of 293 cells with FOXO4 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

FKHR (for forkhead in rhabdomyosarcoma), FKHL1, and AFX1 are members of a subfamily of the forkhead family of transcription factors. AFX1, also known as FoxO4, is expressed in a wide variety of tissues and, like other FKHR proteins, AFX1 contains a single forkhead domain and serine-proline-rich region, which mediate DNA binding. AFX1-mediated transcriptional activation is regulated by the serine/threonine kinase Akt1, which phosphorylates AFX1 and in turn, sequesters AFX1 in the cytosol, thereby blocking nuclear localization and DNA binding. Genetic mutations in FKHR genes, including the t(2;13) and t(1;3) translocations, are commonly found in alveolar rhabdomyosarcomas. Additionally, the t(x;11) translocation of the AFX1 gene, which involves the fusion of a serine-proline-rich sequence of AFX1 to the carboxy terminus of a truncated MLL, results in acute lymphocytic leukemia.

References

Note: This product is for in vitro research use only