

Anti-FOXO4 Antibody (5M471)

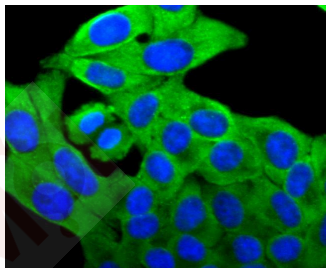
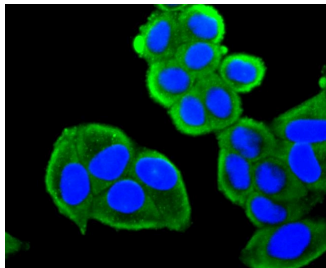
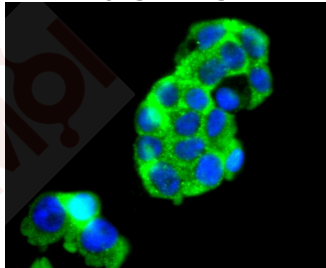
Product Details

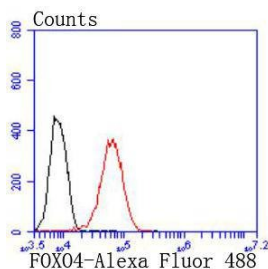
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 54 kDa.
Clone:	5M471
Purification:	ProA affinity purified

Applications

Verified Activity:

1. 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.
2. 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.
3. 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.
4. 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.





Application: FCM,ICC/IF,IP,WB

Recommended WB: 1:1000; ICC/IF: 1:100-500; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P98177

Synonyms: FOXO 4;AFX1;MLLT7;Afxh;RGD1561201;ALL1-fused gene from X chromosome;MGC117660;AFX; Fork head domain transcription factor AFX1;MGC120490;translocated to 7;Mixed lineage leukemia;Forkhead box O4;Myeloid/lymphoid or mixed lineage leukemia;trithorax homolog (Drosophila)

Research 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.

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