

iFluor™ 488 Conjugated Anti-FOXO1A Antibody [SU33-01] HA720161F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	IF-Cell, FC
Molecular Wt:	Predicted band size: 70 kDa
Clone number:	SU33-01

Description: FKHR (for forkhead in rhabdomyosarcoma) and FKHL1 are members of the forkhead family of transcription factors. Transcriptional activation of FKHR proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHL1 and results in FKHL1 associating with 14-3-3 proteins and being retained in the cytoplasm. Induction of apoptosis or withdrawal of growth factors stimulates dephosphorylation and nuclear translocation of FKHR proteins, leading to FKHR-induced gene-specific transcriptional activation. FKHR, also designated forkhead box protein O1A (FOXO1), is a ubiquitously expressed protein that shuttles between the cytoplasm and nucleus. Genetic mutations in FKHR genes, including the t(2;13) and t(1;3) translocations, are commonly found in alveolar rhabdomyosarcomas. These translocations result in the fusion of the amino terminus of Pax-3 or Pax-7, including the paired box and homeodomain DNA-binding domains, with the carboxy-terminus of FKHR, which contains a transcriptional activation domain. The Pax-3/FKHR fusion protein appears to function as an oncogenic transcription factor that enhances the activation of normal Pax-3 target genes.

Conjugate: iFluor™ 488, Ex: 491nm; Em: 516nm.

Immunogen: Synthetic peptide within Human FOXO1A aa 301-350 / 655.

Positive control: HeLa, NIH/3T3.

Subcellular location: Cytoplasm, Nucleus.

Database links: SwissProt: Q12778 Human | Q9R1E0 Mouse | G3V7R4 Rat

Recommended Dilutions:

IF-Cell	1:50
FC	1:500-1:1,000

Storage Buffer: Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn


www.huabio.cn

Images

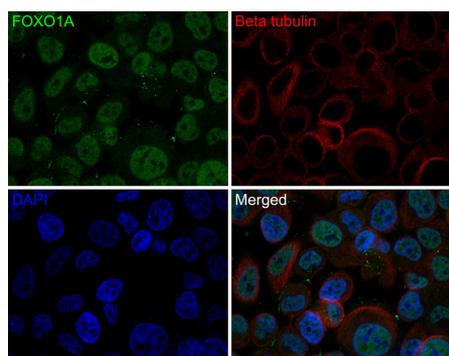


Fig1: Immunocytochemistry analysis of HeLa cells labeling FOXO1A with Rabbit anti-FOXO1A antibody (HA720161F) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 2% normal goat serum for 1 hour at 37 °C. Cells were then incubated with Rabbit anti-FOXO1A antibody (HA720161F) at 1/50 dilution in 2% normal goat serum overnight at 4 °C. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/200 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) were used as the secondary antibody at 1/800 dilution.

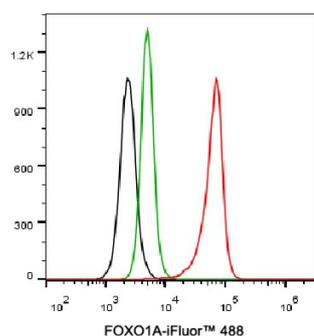


Fig2: Flow cytometric analysis of NIH/3T3 cells labeling FOXO1A.

Cells were fixed and permeabilized. Then incubated for 30 minutes at +4 °C with FOXO1A (HA720161F, red, 1ug/ml) and Rabbit IgG Isotype Control (iFluor™ 488, green, 1ug/ml). Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Xiao N et al. The E3 ubiquitin ligase Itch is required for the differentiation of follicular helper T cells. *Nat Immunol* 15:657-66 (2014).
2. Chen C et al. High cytoplasmic FOXO1 and pFOXO1 expression in astrocytomas are associated with worse surgical outcome. *PLoS One* 8:e69260 (2013).

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