Data Sheet (Cat.No.TMAC-01543)

Anti-FOXO1 Antibody (6M554)

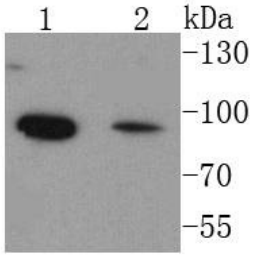
Product Details

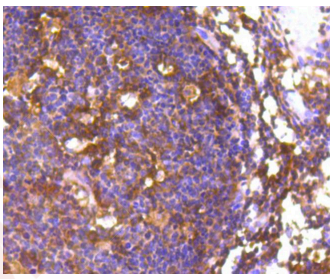
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,zebrafish
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 80 kDa.
Clone:	6M554
Purification:	ProA affinity purified

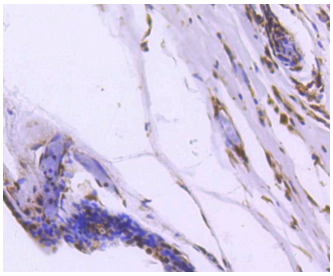
Applications

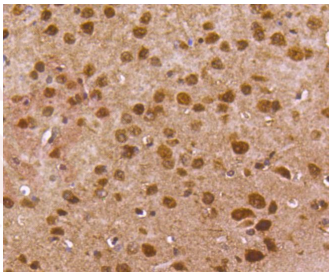
Verified Activity:

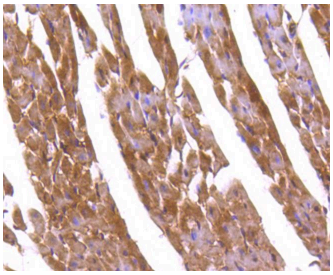
1. Western blot analysis of FOXO1A on different lysates using anti-FOXO1A antibody at 1/1,000 dilution. Positive control: Lane 1: Hela, Lane 2: NIH/3T3.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-FOXO1A antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-FOXO1A antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-FOXO1A antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-FOXO1A antibody. Counter stained with hematoxylin.
6. ICC staining FOXO1A in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining FOXO1A in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining FOXO1A in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

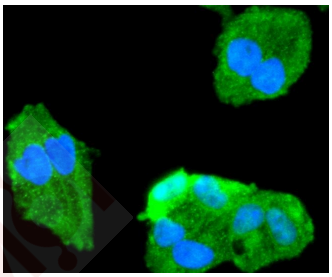


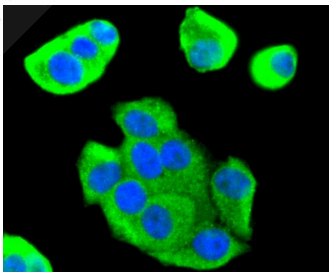


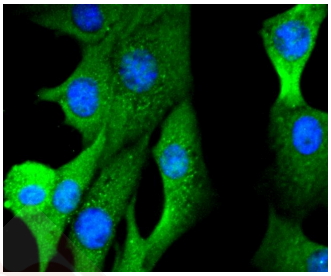












Application: ICC,IHC,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC: 1:50-200

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: Q12778

Synonyms: FKH1;Forkhead;Forkhead, Drosophila, homolog of, in rhabdomyosarcoma;Afxh;Fkhr1;FKH 1; FOXO1A;Forkhead box protein O1A;Forkhead in rhabdomyosarcoma;FKHR;Forkhead box O1; AI876417;Forkhead(Drosophila) homolog 1(rhabdomyosarcoma);Forkhead box protein O1

Research Background

FKHR (for forkhead in rhabdomyosarcoma) and FKHRL1 are members of the forkhead family of transcription factors. Transcriptional activation of FKHR proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHRL1 and results in FKHRL1 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.

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