

Mouse Anti-FOXO1/FKHR [C9]: MC0034, MC0034RTU7

Intended Use: For Research Use Only

Description: Forkhead box O (FOXO) or FKHR (forkhead in rhabdomyosarcoma) is a member of the forkhead family of transcription factors which plays an important role in modulating metabolic functions. Given the relatively high expression of FOXO1 in insulin-responsive tissues, this transcription factor is highly poised to regulate energy metabolism. When nutrient and insulin levels are low, FOXO1 promotes expression of gluconeogenic enzymes. Conversely, in the fed state, insulin levels rise and stimulate uptake of glucose primarily into skeletal muscle and other organs, including adipose tissue. Under certain pathophysiologic conditions, including insulin resistance, negative signaling to FOXO1 is compromised.

Specifications:

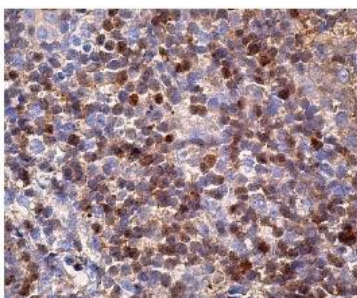
Clone: C9
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse, rat
 Immunogen: Epitope to aa 615-653 near the C-terminus of human FOXO1
 Localization: Nucleus, cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, ICC/IF, IP, WB
 Package:

| Description | Catalog No. | Size |
|-------------------------|-------------|------|
| FOXO1/FKHR Concentrated | MC0034 | 1 ml |
| FOXO1/FKHR Prediluted | MC0034RTU7 | 7 ml |

IHC Procedure*:

Positive Control Tissue: Tonsil and DLBCL tissues
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-FOXO1 using DAB

References:

1. The transcriptional corepressor CtBP2 serves as a metabolite sensor orchestrating hepatic glucose and lipid homeostasis. Motohiro Sekiya, Nat Commun. Nov 2;12(1):6315, 2021.
2. The mammalian decidual cell evolved from a cellular stress response. Eric M Erkenbrack, et al., PLoS Biol. Aug 24;16(8):e2005594, 2018.
3. Death by HDAC Inhibition in Synovial Sarcoma Cells. Aimée N Laporte, et al., Mol Cancer Ther. Dec;16(12):2656-2667, 2017.

Doc. 100-MC0034
Rev. A