

Mouse Anti-TACC3/ERIC1 [C2]: MC0016, MC0016RTU7

Intended Use: For Research Use Only

Description: TACC3 (Transforming acidic coiled-coil-containing protein 3), also known as ERIC1, belongs to the TACC family. TACC family members TACC1, TACC2, and TACC3 map very closely to the corresponding FGFR1, FGFR2, FGFR3 genes on chromosomes 8, 10, and 4. Subsequently, since they are phylogenetically related, it is proposed that TACC and FGFR have similar roles in cell growth and differentiation. TACC3 plays a critical role in microtubule nucleation at the centrosome. It is involved in the regulation of microtubule nucleation at the centrosome and functions in the stabilization of the γ -tubulin ring complex assembly. It plays an essential role in spindle assembly and centrosome integrity during mitosis as well as for cellular survival. It may act as a potential therapeutic target in cancer cells. TACC3 is aberrantly expressed in a variety of human cancers. It acts as a driver of tumorigenesis as well as an inducer of oncogenic EMT.

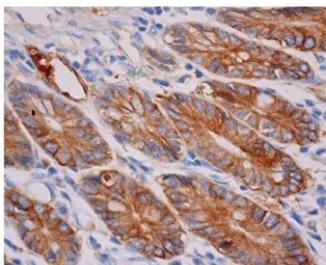
Specifications

Clone:	C2
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat
Immunogen:	Epitope mapping between amino acids 45-83 within an internal region of human TACC3
Localization:	Cytoplasm, membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, IF, IP, WB
Package:	

Description	Catalog No.	Size
TACC3/ERIC1 Concentrated	MC0016	1 ml
TACC3/ERIC1 Prediluted	MC0016RTU7	7 ml

IHC Procedure

Positive Control Tissue:	Testis and tonsil tissues
Concentrated Dilution:	25-200
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 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 duodenum tissue stained with anti-TACC3 using DAB showing cytoplasmic & membrane staining of glandular cells

References:

1. TACC3 protein regulates microtubule nucleation by affecting γ -tubulin ring complexes. Puja Singh et. Al. The Journal of biological chemistry, 289(46), 31719-31735, 2014.
2. TACC3 promotes epithelial-mesenchymal transition (EMT) through the activation of PI3K/Akt and ERK signaling pathways. Geun-Hyoung Ha et. Al. Cancer letters, 332(1), 63-73, 2013.
3. The transforming acidic coiled coil 3 protein is essential for spindle-dependent chromosome alignment and mitotic survival. Leonid Schneider et. Al. The Journal of biological chemistry, 282(40), 29273-29283, 2007.

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