

Mouse Anti-Ubiquitin-conjugating Enzyme E2C/UBE2C/UBCH10 [MD387]: MC0481, MC0481RTU7

Intended Use: For Research Use Only

Description: The ubiquitin pathway involves three sequential enzymatic steps that facilitate the conjugation of ubiquitin and ubiquitin-like molecules to specific protein substrates. The first step requires the ATP-dependent activation of the ubiquitin C-terminus and the assembly of multi-ubiquitin chains by the ubiquitin-activating enzyme known as the E1 component. The ubiquitin chain is then conjugated to the ubiquitin-conjugating enzyme (E2) to generate an intermediate ubiquitin-E2 complex. The ubiquitin-ligase (E3) then catalyzes the transfer of ubiquitin from E2 to the appropriate protein substrate. UBE2C, also designated UBCH10 in human, is an ubiquitin-conjugating enzyme E2 for the anaphase promoting complex (APC), which coordinates mitosis and G1 by sequentially promoting the degradation of key cell-cycle regulators. UBE2C is overexpressed in many different types of cancers and may be a potential therapeutic target.

Specifications

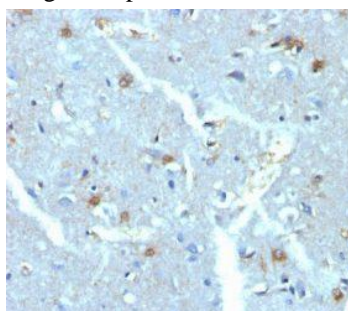
Clone:	MD387
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human
Immunogen:	Human UBE2C protein
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA
Package:	

Description	Catalog No.	Size
UBE2C/UBCH10 [MD387] Concentrated	MC0481	1 ml
UBE2C/UBCH10 [MD387] Prediluted	MC0481RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Tonsil, placenta
Concentrated Dilution:	25-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 brain stained with anti-UBE2C using DAB

References:

1. FOXM1-regulated ZIC2 promotes the malignant phenotype of renal clear cell carcinoma by activating UBE2C/mTOR signaling pathway. Lv, Z., et al. 2023. Int J Biol Sci. 19: 3293-3306.
2. Role of UBE2C in Brain Cancer Invasion and Dissemination. Domentean, S., et al. 2023. Int J Mol Sci. 24: PMID: 37958776.
3. Anticancer effect of icaritin on prostate cancer via regulating miR-381-3p and its target gene UBE2C. Jimeng Hu, et al. Cancer Med. Dec;8(18):7833-7845, 2019. doi: 10.1002/cam4.2630.

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