

Rabbit Anti-Calmodulin Binding Transcription Activator 1 (CAMTA1) Polyclonal: RC0328

Intended Use: For Research Use Only

Description: Calmodulin-binding transcription activator 1, encoded by the CAMTA1 gene, normally expressed in non-neoplastic adult central nervous system tissues: detected in whole brain, cerebellum, brain cortex, occipital lobe, frontal lobe, temporal lobe, putamen. Expression levels are low in oligodendroglial tumors, and are reduced by half in oligodendroglioma and astrocytoma cases with 1p loss of heterozygosity. CAMTA1 may be a tumor suppressor. However, a translocation event is sometimes observed between this gene and the WWTR1 gene, with the resulting WWTR1-CAMTA1 oncoprotein leading to epithelioid hemangioendothelioma, a malignant vascular cancer.

Specifications:

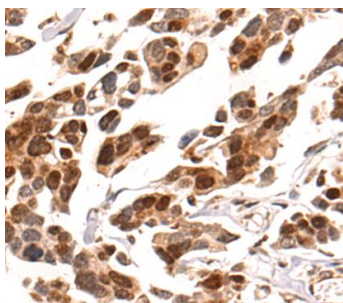
Clone: Polyclonal
Source: Rabbit
Isotype: IgG
Reactivity: Human, mouse
Immunogen: Synthetic peptide of human CAMTA1
Localization: Nucleus
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃).
Storage: Store at 2°- 8°C
Applications: IHC
Package:

Description	Catalog No.	Size
Calmodulin Binding Transcription Activator 1 (CAMTA1) Polyclonal Concentrated	RC0328	1 ml

IHC Procedure*:

Positive Control Tissue: Colorectal cancer
Concentrated Dilution: 10-100
Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp: Overnight @ 4°C
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human colorectal cancer stained with anti-CAMTA1 Polyclonal using DAB

References:

1. Two cases of WWTR1-CAMTA-1 fusion-positive epithelioid hemangioendotheliomas with extremely different outcomes. Yoshitane Tsukamoto, et al. Human Pathology: Case Reports. Volume 14, November 2018, Pages 25-32.
2. Nuclear Expression of CAMTA1 Distinguishes Epithelioid Hemangioendothelioma From Histologic Mimics. Leona A Doyle, et al. Am J Surg Pathol. Jan;40(1):94-102, 2016.
3. CAMTA1 is a useful immunohistochemical marker for diagnosing epithelioid haemangioendothelioma. Ryo Shibuya, et al. Histopathology. Dec;67(6):827-35, 2015.