

Mouse Anti-PCNA [PC10]: MC0238, MC0238RTU7

Intended Use: For Research Use Only

Description: Proliferating cell nuclear antigen (PCNA) is a member of the DNA sliding clamp family of proteins that assist in DNA replication. Crystal structure data suggests that a PCNA homotrimer ring can encircle and slide along the DNA double helix. Multiple proteins involved in DNA replication, DNA repair, and cell cycle control bind to PCNA rather than directly associating with DNA, thus facilitating fast processing of DNA (reviewed in 3). PCNA protein expression is a well-accepted marker of proliferation.

Specifications

Clone: PC10
 Source: Mouse
 Isotype: IgG2a/k
 Reactivity: Human, mouse, rat, monkey
 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, Flow Cyt., ICC/IF, WB
 Package:

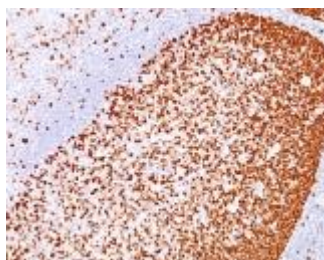
Description	Catalog No.	Size
PCNA Concentrated	MC0238	1 ml
PCNA Prediluted	MC0238RTU7	7 ml

IHC

Procedure*

Positive Control Tissue: Tonsil
 Concentrated Dilution: 100-300
 Pretreatment: Citrate pH6.0, 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-PCNA using DAB

References:

1. Survivin DEx3 as a biomarker of thyroid cancers: A study at the mRNA and protein level. Waligórska-Stachura J, et al. *Oncol Lett* 13:2437-2441, 2017.
2. ARHGAP1 overexpression inhibits proliferation, migration and invasion of C-33A and SiHa cell lines. Li JP, et al. *Onco Targets Ther* 10:691-701, 2017.
3. Intrinsic cellular signaling mechanisms determine the sensitivity of cancer cells to virus-induced apoptosis. Wang Y, et al. *Sci Rep* 6:37213, 2016.