

Rabbit Anti-PIM1 Polyclonal: RC0298

Intended Use: For Research Use Only

Description: Proto-oncogene serine/threonine-protein kinase Pim-1 is an enzyme that in humans is encoded by the PIM1 gene. The pim-1 oncogene has been implicated in multiple human cancers, including prostate cancer, acute myeloid leukemia and other hematopoietic malignancies. Primarily expressed in spleen, thymus, bone marrow, prostate, oral epithelial, hippocampus and fetal liver cells. Pim-1 is mainly involved in cell cycle progression, apoptosis and transcriptional activation, as well as more general signal transduction pathways. Pim-1's role in oncogenic signalling has led to it becoming a widely studied target in cancer research, with numerous drug candidates under investigation which target it.

Specifications

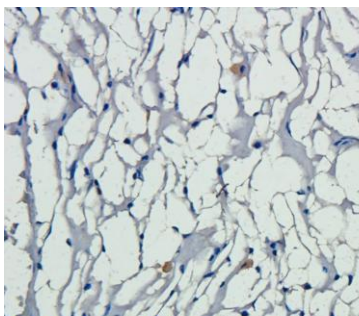
Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human, mouse, rat
 Immunogen: KLH conjugated synthetic peptide derived from human PIM1
 Localization: Cytoplasm, nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, WB
 Package:

Description	Catalog No.	Size
PIM1 Concentrated	RC0298	1 ml

IHC Procedure*

Positive Control Tissue: Prostate cancer, spleen
 Concentrated Dilution: 10-50
 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: Overnight @ 4°C
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human rectal cancer stained with anti-PIM1 using DAB

References:

- Overexpression of microRNA-486 affects the proliferation and chemosensitivity of mesothelioma cell lines by targeting PIM1. Pinelli S, et al. Int J Mol Med 47:N/A, 2021.
- Pim-1 Kinase and p100 Cooperate to Enhance c-Myb Activity. Joel D. Levenson, et al. Molecular Cell, Vol. 2, 417-425, October, 1998.