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DATA SHEET

# Rabbit Anti-ROR1/NTRKR1 Polyclonal: RC0105

**Intended Use:** For Research Use Only

**Description:** ROR1 and ROR2 are orphan receptor tyrosine kinases that are most closely related to MuSK and the Trk family of neurotrophin receptors. ROR1 (receptor tyrosine kinase-like orphan receptor 1), also known as neurotrophic tyrosine kinase receptor-related 1(NTRKR1), is a tumor-associated, surface protein predominantly expressed during embryogenesis, where it is involved in organ morphogenesis, nervous system development, and neural progenitor cell maintenance and survival. A 6-kb NTRKR1 mRNA is expressed strongly in human heart, lung, and kidney, but weakly in the CNS. However, a truncated 2.4-kb mRNA lacking extracellular and transmembrane domains was strongly expressed in fetal and adult CNS and in a variety of human cancers, including chronic lymphocytic leukemia (CLL), mantle cell lymphoma (MCL), acute lymphoblastic leukemia (ALL), marginal zone lymphoma, lung adenocarcinoma. Wnt-5a has since been suggested as a candidate ligand for ROR1, and ROR1 has been implicated to function as a pseudokinase, promoting proliferation and resistance to apoptosis in cancer cells through interaction with Wnt-5a, and TCL1-co-activation of AKT.

**Specifications**

| | |
|---|---|
| Clone: | Polyclonal |
| Source: | Rabbit |
| Isotype: | IgG |
| Reactivity: | Human, mouse, rat |
| Immunogen: | KLH conjugated synthetic peptide derived from human ROR1 |
| Localization: | Membrane |
| Formulation: | Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3) |
| Storage: | Store at 2°- 8°C |
| Applications: | IHC, WB |

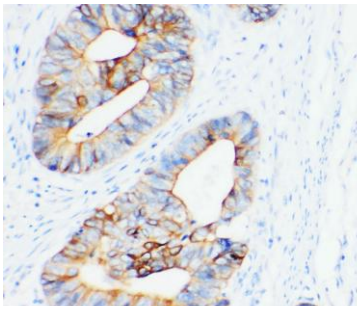
Package:

| Description | Catalog No. | Size |
|---|---|---|
| ROR1/NTRKR1 Polyclonal Concentrated | RC0105 | 1 ml |

**IHC Procedure***

| | |
|---|---|
| Positive Control Tissue: | Lung carcinoma |
| Concentrated Dilution: | 10-50 |
| Pretreatment: | Citrate pH6.0 or EDTA pH8.0, 15 min Pressure Cooker or 30-60 min water bath at 95°-99°C |
| Incubation Time and Temp: | Overnight at 4°C |
| Detection: | Refer to the detection system manual |

* Result should be confirmed by an established diagnostic procedure.



FFPE human intestinal cancer tissue stained with anti-ROR1 using DAB

**References:**


1. Therapeutic advances in the targeting of ROR1 in hematological cancers. Adrian-Bogdan Tigu, et al. Cell Death Discovery volume 10, Article number: 471, 2024.
2. Analysis of ROR1 protein expression in human cancer and normal tissues. Ashwini Balakrishnan, et al. Clin Cancer Res. Clin Cancer Res. Nov 16;23(12):3061–3071, 2016.
3. ROR1 expression correlated with poor clinical outcome in human ovarian cancer. Zhang H, et al. Sci Rep 4:5811, 2014.
4. Quantitative temporal viromics: an approach to investigate host-pathogen interaction. Weekes MP, et al. Cell 157, 2014.





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