

ROR gamma Polyclonal Antibody

Catalog NumberPA5-23148

Product data sheet

| Details            |  | Species Reactivity   |                                   |
|--------------------|--|--|-----------------------------------|
| Size               | 100 µg   | Species reactivity   | Human, Mouse                      |
| Host/Isotope       | Rabbit / IgG   | Published species  | Rat, Mouse, Human, Not Applicable |
| Class              | Polyclonal   | Tested Applications  |                                   |
| Type               | Antibody   | Immunohistochemistry (Paraffin) (IHC (P))  | Dilution *10 µg/mL                |
| Immunogen          | A portion of amino acids 1-50 of human ROR gamma/RORC/NR1F3                                  | Immunoprecipitation (IP)   | Assay-Dependent                   |
| Conjugate          | Unconjugated   | Western Blot (WB)  | 0.5-2 µg/mL                       |
| Form               | Liquid   | Immunocytochemistry (ICC/IF)   | Assay-Dependent                   |
| Concentration      | 1 mg/mL  | Published Applications   |                                   |
| Purification       | Antigen affinity chromatography  | Immunohistochemistry (IHC)   | See 3 publications below          |
| Storage buffer     | PBS  | Immunohistochemistry (Frozen) (IHC (F))  | See 1 publications below          |
| Contains           | 0.02% sodium azide   | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. |                                   |
| Storage Conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |  |                                   |

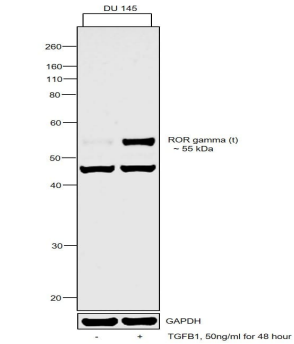
Background/Target Information

ROR gamma is a 560 amino acid novel DNA-binding transcription factor belonging to the ROR/RZR orphan nuclear receptor subfamily. Reports suggest thatROR gammais a ligand activated transcription factor and may be essential for lymphoid organogenesis (lymph nodes and Peyer's patches) and may play an important regulatory role in controlling apoptosis during thymopoiesis. ROR gamma inhibits the expression of Fas ligand and IL2 and directs the differentiation program of proinflammatory IL-17+ T helper cells. ROR gamma shares 50 to 51% sequence identity with RORA and RORB and is 88% identical to mouse ROR gamma. It is highly expressed in skeletal muscle and at lower levels in various other tissues.

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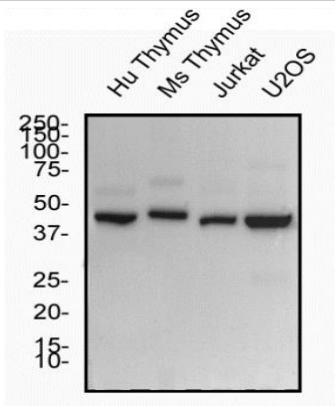
ROR gamma Antibody (PA5-23148)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using ROR gamma Polyclonal Antibody (Product # PA5-23148), shows increased expression of proteins in DU 145 upon treatment with TGFβ1. {TM}



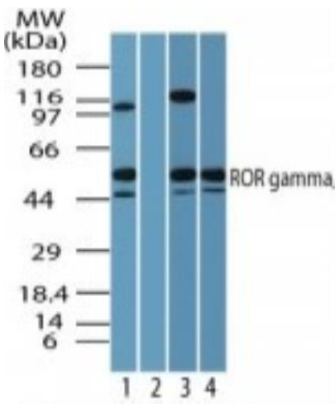
ROR gamma Antibody (PA5-23148) in WB

Western blot analysis of ROR gamma in human and mouse Thymus, Jurkat and U2OS cells. Samples were incubated in ROR gamma polyclonal antibody (Product # PA5-23148) using a dilution of 2 µg/mL followed by an anti-rabbit HRP secondary antibody. Separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. Detection: chemiluminescence.



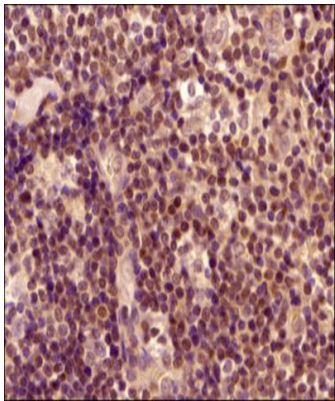
ROR gamma Antibody (PA5-23148) in WB

Western blot analysis of ROR gamma in Jurkat cell lysate in the 1) absence, 2) presence of immunizing peptide, 3) in 3T3, and 4) in RAW cell lysate. Samples were incubated in ROR gamma polyclonal antibody (Product # PA5-23148).



ROR gamma Antibody (PA5-23148) in IHC (P)

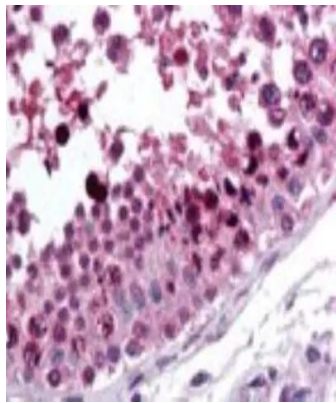
Immunohistochemical analysis of ROR gamma in Tissue section of human lymph node. Samples were incubated in ROR gamma polyclonal antibody (Product # PA5-23148) followed by a HRP labeled secondary antibody and DAB reagent. Nuclei of cells were counter-stained with hematoxylin. This antibody generated mainly a nuclear staining in a subset of cells and a weak to cytoplasmic staining was also observed in some cells.



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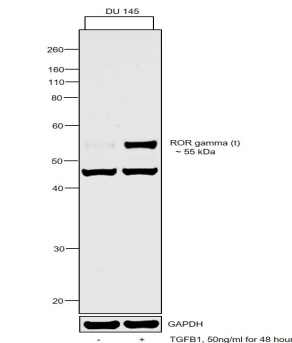
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### ROR gamma Antibody (PA5-23148) in IHC (P)

Immunohistochemical analysis of ROR gamma in human testis. Samples were incubated in ROR gamma polyclonal antibody (Product # PA5-23148).



### ROR gamma Antibody (PA5-23148) in WB

Western blot was performed using Anti-ROR gamma Polyclonal Antibody (Product # PA5-23148) and a 55 kDa band corresponding to ROR gamma (t) was increased upon TGFB1 treatment. An uncharacterized band (\*) at ~45 kDa was also observed. Modified whole cell extracts (1% SDS) (30 µg lysate) of DU 145 (Lane 1) and DU145 treated with TGFB1 (50 ng/mL for 48 hour) (Lane 2) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.5 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

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PubMed References For ROR gamma Polyclonal Antibody

3 Immunohistochemistry References

| Species / Dilution | Summary  |
|--------------------|--|
| Mouse / 1:200      | PA5-23148 was used in Immunohistochemistry to suggest that VX-765 can reduce neuroinflammation and improve nerve function recovery after spinal cord injury by inhibiting caspase-1/interleukin-1/interleukin-18.  |
|                    | Neural regeneration research ( 2021; 16: 1836)<br><b>"VX-765 reduces neuroinflammation after spinal cord injury in mice."</b><br>Author(s):Chen J,Chen YQ,Shi YJ,Ding SQ,Shen L,Wang R,Wang QY,Zha C,Ding H,Hu JG,Lü HZ<br>PubMed Article URL: <a href="http://dx.doi.org/10.4103/1673-5374.306096">http://dx.doi.org/10.4103/1673-5374.306096</a>   |
| Human / 1:4000     | PA5-23148 was used in Immunohistochemistry to provide a unique description of the ASCP genomic and epigenomic landscape and identify candidate therapeutic targets for this dismal cancer.   |
|                    | Cancer research ( 2020; 80: 4324)<br><b>"Genomic and Epigenomic Landscaping Defines New Therapeutic Targets for Adenosquamous Carcinoma of the Pancreas."</b><br>Author(s):Lenkiewicz E,Malasi S,Hogenson TL,Flores LF,Barham W,Phillips WJ,Roesler AS,Chambers KR,Rajbhandari N, Hayashi A,Antal CE,Downes M,Grandgenett PM,Hollingsworth MA,Cridebring D,Xiong Y,Lee JH,Ye Z,Yan H,Hernandez MC,Leiting JL,Evans RM,Ordog T,Truty MJ,Borad MJ,Reya T,Von Hoff DD,Fernandez-Zapico ME,Barrett MT<br>PubMed Article URL: <a href="http://dx.doi.org/10.1158/0008-5472.CAN-20-0078">http://dx.doi.org/10.1158/0008-5472.CAN-20-0078</a> |
| Human / 1:500      | PA5-23148 was used in Immunohistochemistry to identify an orthogonal co-option of immuno-regulatory signals by pancreatic cancer stem cells, suggesting that autoimmune drugs should be evaluated as novel treatment strategies for pancreatic cancer patients.  |
|                    | Cell ( 2019; 177: 572)<br><b>"A Multiscale Map of the Stem Cell State in Pancreatic Adenocarcinoma."</b><br>Author(s):Lytle NK,Ferguson LP,Rajbhandari N,Gilroy K,Fox RG,Deshpande A,Schürch CM,Hamilton M,Robertson N,Lin W,Noel P,Wartenberg M,Zlobec I,Eichmann M,Galván JA,Karamitopoulou E,Gilderman T,Esparza LA,Shima Y,Spahn P, French R,Lewis NE,Fisch KM,Sasik R,Rosenthal SB,Kritzik M,Von Hoff D,Han H,Ideker T,Deshpande AJ,Lowy AM, Adams PD,Reya T<br>PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.cell.2019.03.010">http://dx.doi.org/10.1016/j.cell.2019.03.010</a>                                       |

1 Immunohistochemistry (Frozen) References

| Species / Dilution | Summary   |
|--------------------|---|
| Mouse / 1:200      | PA5-23148 was used in Immunohistochemistry (Frozen) to study the effect of CRID3 on the local microenvironment and the possible role in neuroprotection following spinal cord injury.   |
|                    | Journal of neuroinflammation ( 2020; 17: )<br><b>"CRID3, a blocker of apoptosis associated speck like protein containing a card, ameliorates murine spinal cord injury by improving local immune microenvironment."</b><br>Author(s):Chen YQ,Wang SN,Shi YJ,Chen J,Ding SQ,Tang J,Shen L,Wang R,Ding H,Hu JG,Lü HZ<br>PubMed Article URL: <a href="http://dx.doi.org/10.1186/s12974-020-01937-8">http://dx.doi.org/10.1186/s12974-020-01937-8</a> |

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