
Anti-Human Runx3 Purified

Catalog Number: 14-9817

Also known as: AML2, CBFA3

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human Runx3 Purified
Catalog Number: 14-9817
Clone: R3-5G4
Concentration: 0.5 mg/mL
Host/Isotype: Mouse IgG1, kappa

REF



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

This R3-5G4 monoclonal antibody recognizes human Runx3, a 44 kDa transcription factor that belongs to the Runt domain-containing family. Runx3 is expressed in hematopoietic cells such as T cells, B cells, and myeloid cells. This transcription factor is also expressed in non-hematopoietic tissues, including the epidermis, bone, and dorsal root ganglia. Runx3 has been established to play a critical role in thymocyte development. More specifically, Runx3 promotes CD8 + T cell development by silencing Cd4 expression. Finally, studies have demonstrated the tumor suppressive activity of in a variety of cancers (e.g., gastric and breast cancers).

Applications Reported

This R3-5G4 antibody has been reported for use in western blotting, and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

Applications Tested

This R3-5G4 antibody has been tested by western blotting of the Raji cell line and by immunohistochemistry of formalin-fixed paraffin embedded human skin tissue using the IHC Antigen Retrieval Solution – High pH (cat 00-4956). This can be used at less than or equal to 5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Huang B, Qu Z, Ong CW, Tsang YH, Xiao G, Shapiro D, Salto-Tellez M, Ito K, Ito Y, Chen LF. RUNX3 acts as a tumor suppressor in breast cancer by targeting estrogen receptor α . *Oncogene*. 2012 Jan 26;31(4):527-34.

Kohu K, Ohmori H, Wong WF, Onda D, Wakoh T, Kon S, Yamashita M, Nakayama T, Kubo M, Satake M. The Runx3 transcription factor augments Th1 and down-modulates Th2 phenotypes by interacting with and attenuating GATA3. *J Immunol*. 2009 Dec 15;183(12):7817-24.

Ito K, Liu Q, Salto-Tellez M, Yano T, Tada K, Ida H, Huang C, Shah N, Inoue M, Rajnakova A, Hiong KC, Peh BK, Han HC, Ito T, Teh M, Yeoh KG, Ito Y. RUNX3, a novel tumor suppressor, is frequently inactivated in gastric cancer by protein mislocalization. *Cancer Res*. 2005 Sep 1;65(17):7743-50. (R3-5G4, WB)

Woolf E, Xiao C, Fainaru O, Lotem J, Rosen D, Negreanu V, Bernstein Y, Goldenberg D, Brenner O, Berke G, Levanon D, Groner Y. Runx3 and Runx1 are required for CD8 T cell development during thymopoiesis. *Proc Natl Acad Sci U S A*. 2003 Jun 24;100(13):7731-6.

Bangsow C, Rubins N, Glusman G, Bernstein Y, Negreanu V, Goldenberg D, Lotem J, Ben-Asher E, Lancet D, Levanon D, Groner Y. The RUNX3 gene--sequence, structure and regulated expression. *Gene*. 2001 Nov 28;279(2):221-32.

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein

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00-4954 20X TBS Wash Buffer for IHC/ICC

00-4956 IHC Antigen Retrieval Solution – High pH (10X)

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

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