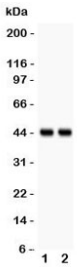
# RUNX3 Antibody (R31777)

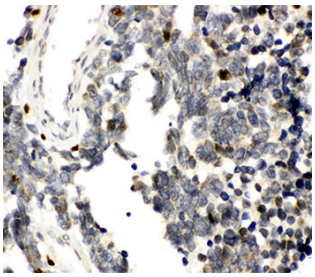
| Catalog No. | Formulation | Size |
|---|---|---|
| R31777 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

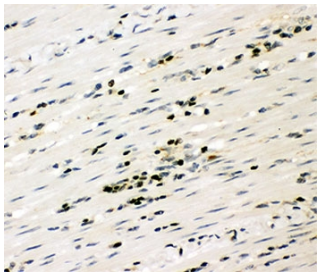
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide |
| **UniProt** | Q64131 |
| **Localization** | Cytoplasmic, nuclear |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry (FFPE) : 0.5-1ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Immunofluorescence : 2-5ug/ml |
| **Limitations** | This RUNX3 antibody is available for research use only. |



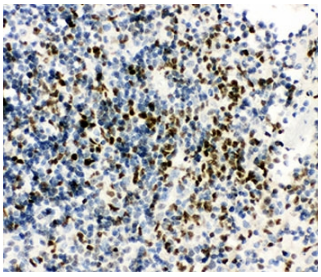

Western blot testing of RUNX3 antibody and human lysates 1. A431 and 2. U-2 0S.
Predicted molecular weight: ~44 kDa, isoforms can be observed at 42-48 kDa.



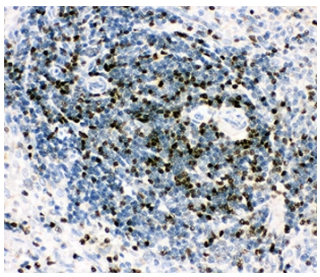
IHC-P testing of RUNX3 antibody and human lung cancer tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



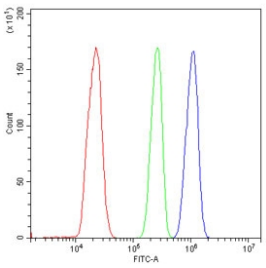
IHC-P testing of RUNX3 antibody and human intestine cancer tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



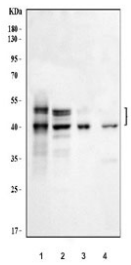
IHC-P testing of mouse spleen tissue with RUNX3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



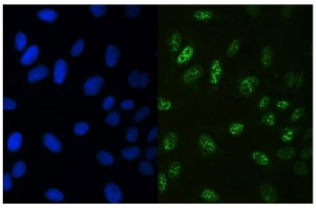
IHC-P testing of rat spleen tissue with RUNX3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Flow cytometry testing of human ThP-1 cells with RUNX3 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RUNX3 antibody.




Western blot testing of human 1) Raji, 2) Ramos, 3) HT1080 and 4) MCF7 cell lysate with RUNX3 antibody. Predicted molecular weight: ~44 kDa, isoforms can be observed at 42-48 kDa.



Immunofluorescent staining of FFPE human U-2 OS cells with RUNX3 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

## Description

Runt-related transcription factor 3, also called AML2 is a protein that in humans is encoded by the RUNX3 gene. The RUNX3 gene encodes a Runt-related transcription factor, which is part of the RUNX gene family. By fluorescence in situ hybridization, RUNX3 was assigned to human chromosome 1p36.11. RUNX3 binds to the core site of murine Leukemia virus, the core sequences in the enhancer of the polyomavirus, and also to the enhancers of the T-cell receptor genes. It may be involved in the control of cellular proliferation and/or differentiation.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the RUNX3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Human partial recombinant protein (AA 128-270) was used as the immunogen for this RUNX3 antibody.

## Storage

After reconstitution, the RUNX3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.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