

# RUNX1 Monoclonal Antibody (5A1)

## Product Details

Size	100 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	5A1
Conjugate	Unconjugated
Immunogen	Synthesized peptide of human RUNX1.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.03% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_11154106

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	-
Immunocytochemistry (ICC/IF)	1:200-1:1,000	1 Publication
ELISA (ELISA)	1:10,000	-

## Product Specific Information

MA5-15814 targets RUNX1 in indirect ELISA, IF and WB applications and shows reactivity with Human samples.

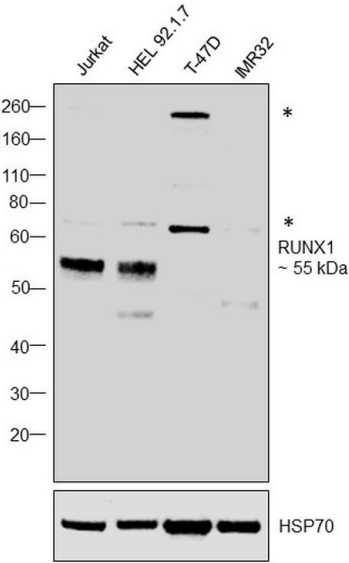
The MA5-15814 immunogen is synthesized peptide of human RUNX1. .

MA5-15814 detects RUNX1 which has a predicted molecular weight of approximately 55kDa.

Product Images For RUNX1 Monoclonal Antibody (5A1)

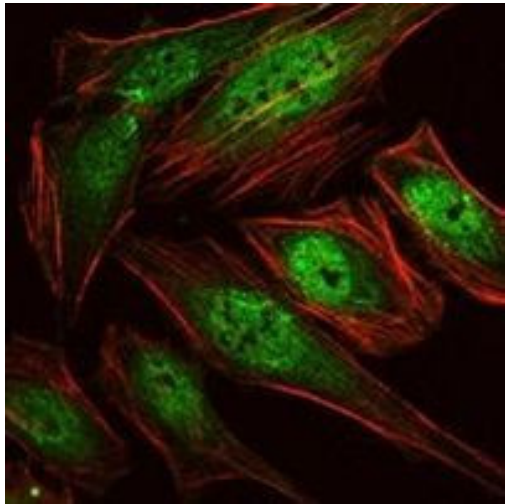
RUNX1 Antibody (MA5-15814) in WB

Western blot was performed using Anti-RUNX1 Monoclonal Antibody (5A1), (Product # MA5-15814) and a 55 kDa band corresponding to RUNX1 along with uncharacterized bands (\*) at ~70 kDa and ~200 kDa were observed in the cell lines tested. Modified whole cell extracts (1% SDS) (40 µg lysate) of Jurkat (Lane 1), HEL 92.1.7 (Lane 2), T-47D (Lane 3) and IMR32 (Lane 4) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX). 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 (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



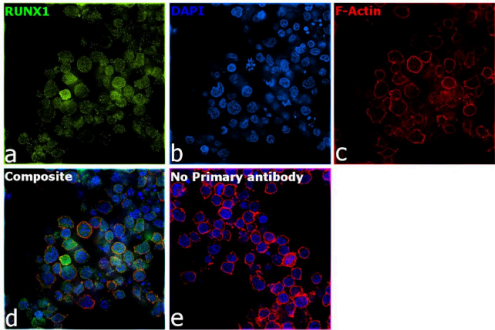
RUNX1 Antibody (MA5-15814) in ICC/IF

Immunofluorescence analysis of HeLa cells using RUNX1 monoclonal antibody (Product # MA5-15814) (Green). Red: actin filaments have been labeled with phalloidin.



RUNX1 Antibody (MA5-15814) in ICC/IF

Immunofluorescence analysis of RUNX1 was performed using 70% confluent log phase Jurkat cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with RUNX1 Monoclonal Antibody (5A1) (Product # MA5-15814) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing predominantly nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Immunocytochemistry (1)

Genes & development	Year 2019
<b>The splicing factor U2AF1 contributes to cancer progression through a noncanonical role in translation regulation.</b>	Species Human
"MA5-15814 was used in Immunocytochemistry-immunofluorescence to show a noncanonical function of U2AF1 whereby it can directly bind mature mRNA in the cytoplasm and negatively regulate mRNA translation, contributing to cancer progression."	Dilution 1:1,000
Authors: Palangat M,Anastasakis DG,Fei DL,Lindblad KE,Bradley R,Hourigan CS,Hafner M,Larson DR	

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