Human RUNX2/CBFA1 Antibody

Monoclonal Rat IgG_{2B} Clone # 232902

Catalog Number: MAB2006

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RUNX2/CBFA1.
Source	Monoclonal Rat IgG_{2B} Clone # 232902
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human RUNX2/CBFA1 isoform 2 Lys233-Tyr418 Accession # Q13950
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

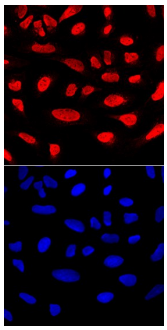
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



RUNX2/CBFA1 in U2OS Human Cell Line. RUNX2/CBFA1 was detected in immersion fixed U2OS human osteosarcoma cell line using Rat Anti-Human RUNX2/CBFA1 Monoclonal Antibody (Catalog # MAB2006) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red, upper panel; Catalog # NL013) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CBFA1, also called runt-related transcription factor 2 (RUNX2), is an essential transcription factor for the regulation of osteoblast differentiation (1). The CBFA1 gene potentially encodes several proteins that differ in their N-terminal sequences and transactivation capacities (2).

References:

1. Ducy, P. *et al.* (1997) Cell **89**:747.
2. Xiao, Z.S. *et al.* (1998) Gene **214**:187.
3. Sato, M. *et al.* (1998) Oncogene **17**:1517.

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