Human Musashi-2 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF3255

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Musashi-2 in Western blots. In Western blots, approximately 15% cross-reactivity with recombinant human Musashi-1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Musashi-2 isoform 1 Met1-His328 Accession # Q96DH6
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

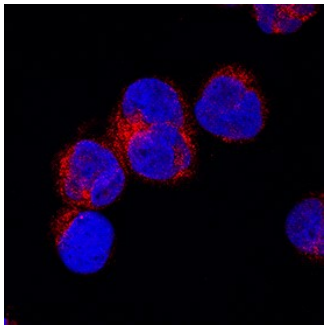
APPLICATIONS

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
Western Blot	0.1 µg/mL	Recombinant Human Musashi-2
Immunocytochemistry	5-15 µg/mL	See Below

DATA

Immunocytochemistry



Musashi-2 in MOLT-4 Human Cell Line. Musashi-2 was detected in immersion fixed MOLT-4 human acute lymphoblastic leukemia cell line using Goat Anti-Human Musashi-2 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF3255) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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

Musashi-2 belongs to the evolutionarily conserved Musashi family of RNA binding proteins which are involved in the translational control of their target mRNAs. Musashi-2 has two tandem RNA-recognition domains (RRM-1 and RRM-2) that have the highly conserved RNP (ribonucleoprotein) motifs. By alternative splicing, at least three Musashi-2 isoforms exist. In mammalian nervous system, Musashi-1 and –2 are selectively expressed in neural progenitor cells and play important roles in maintenance of the stem cell fate. Human Musashi-2 shares 95% amino acid sequence homology with mouse Musashi-2 and 80% amino acid sequence identity with human Musashi-1. Translocations resulting in the formation of Musashi-2/HOXA9 fusion protein is associated with progression of chronic myelogenous leukemia to the accelerated phase and blast crisis.

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