Human/Mouse/Rat Musashi-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2628

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Musashi-1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Musashi-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Musashi-1 Met1-His362 Accession # O43347
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.

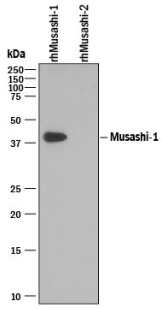
APPLICATIONS

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
Western Blot	0.1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	1-15 µg/mL	See Below

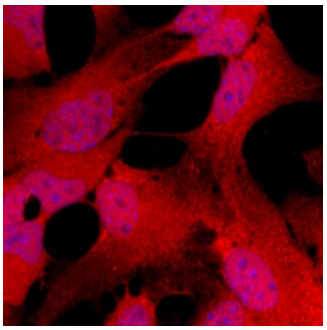
DATA

Western Blot



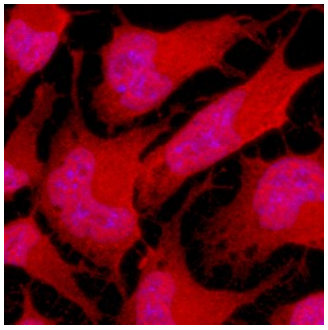
Detection of Recombinant Human Musashi-1 by Western Blot. Western blot shows 25 ng of Recombinant Human Musashi-1 and Recombinant Human Musashi-2. PVDF Membrane was probed with 0.1 µg/mL of Goat Anti-Human/Mouse/Rat Musashi-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2628) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for Musashi-1 at approximately 39 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Immunocytochemistry



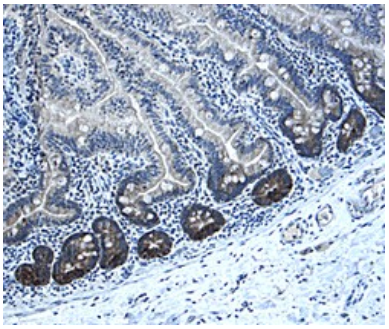
Musashi-1 in Mouse Cortical Stem Cells. Musashi-1 was detected in immersion fixed undifferentiated mouse cortical stem cells using Goat Anti-Human/Mouse/Rat Musashi-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2628) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counter-stained with DAPI (blue). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.

Immunocytochemistry



Musashi-1 in Rat Cortical Stem Cells. Musashi-1 was detected in immersion fixed undifferentiated rat cortical stem cells using Goat Anti-Human/Mouse/Rat Musashi-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2628) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.

Immunohistochemistry



Musashi-1 in Human Intestine. Musashi-1 was detected in immersion fixed paraffin-embedded sections of human intestine using 1 µg/mL Goat Anti-Human/Mouse/Rat Musashi-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2628) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of epithelial cells in intestinal glands. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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. *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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

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BACKGROUND

Musashi-1 is an RNA-binding protein that is expressed in the developing central nervous system. Expression is highest in proliferating multipotent neural precursor cells and decreases during neuronal differentiation (1, 2).

References:

1. Kaneko, Y. *et al.* (2000) Dev. Neurosci. **22**:139.
2. Kanemura, Y. *et al.* (2002) Meth. Mol. Biol. **198**:273.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956