# Data Sheet (Cat.No.TMAC-02689)

## Anti-Musashi 1 Antibody (3I437)

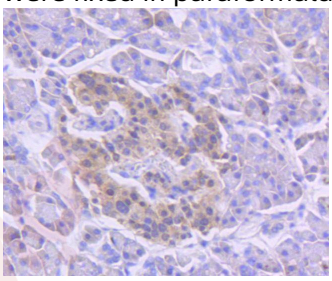
### Product Details

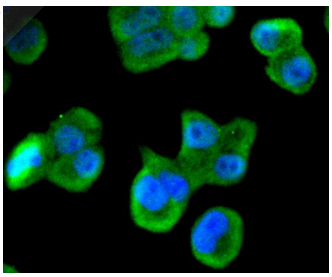
| | |
|---|---|
| Ig Type: | IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Molecular Weight: | Theoretical: 39 kDa. |
| Clone: | 3I437 |
| Purification: | ProA affinity purified |

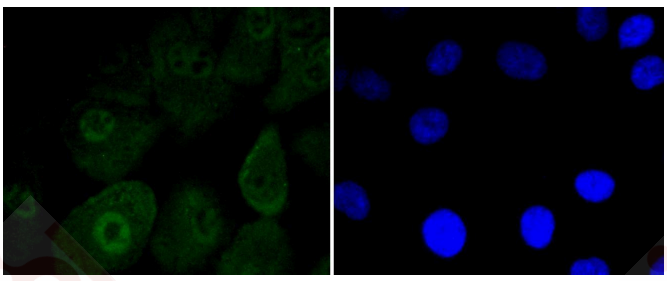
### Applications

Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-Musashi 1 antibody. Counter stained with hematoxylin.
2. ICC staining Musashi 1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining Musashi 1 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.







| | |
|---|---|
| Application: | FCM,ICC/IF,IHC,IP,WB |
| Recommended | WB: 1:1000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-200 |

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O43347

Synonyms: MSI1H_HUMAN;RNA binding protein Musashi homolog 1;RNA-binding protein Musashi homolog 1;Musashi1;Msi1;Msi 1;Musashi homolog 1

## Research Background

Musashi1 (Msi1) is an RNA-binding protein expressed in neural progenitor cells and neural stem cells. Msi1 is the mammalian homolog of Drosophila Musashi. The gene encoding human Msi1 encodes a 362 amino acid protein. In murine embryonic neural progenitor cells, Msi1 localizes to the cytoplasm and is downregulated during differentiation. Msi1 binds to NUMB, which encodes a membrane-associated antagonist of Notch signaling. Msi1 appears to function in the proliferation and maintenance of stem cell populations of the central nervous system. In addition to its usefulness as a marker for neural progenitor cells in normal human brains, Msi1 is also a marker for human gliomas. In rats, Msi1 is expressed in Sertoli cells of the testis and granulosa cells of the ovary.



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