

CD38

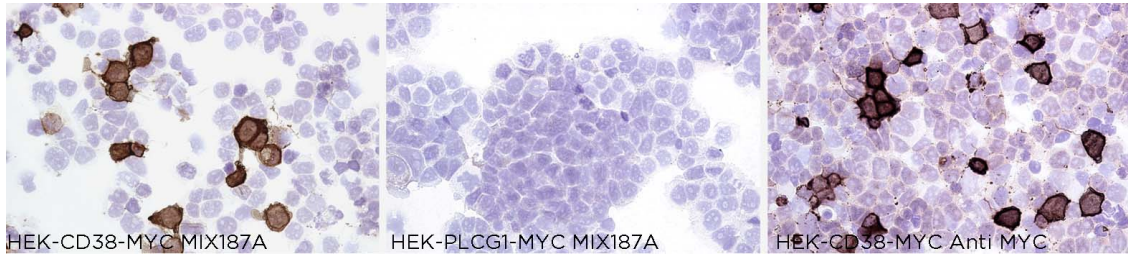
CONTACT INFORMATION: Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS: Validated
TYPE: mouse monoclonal
CLONE NAME: MIX187A
PROTEIN: ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1
PROTEIN WEB: https://www.uniprot.org/uniprot/P28907#names_and_taxonomy
ANTIGEN USED: LP1 cell line
FUSION PARTNER: NS1/Ag4-1 (NS1) cells
ISOTYPE: IgG1
SPECIES REACTIVITY: Human
PREPARATION AND STORAGE: Aliquot and store at 4C. Do not freeze

DESCRIPTION

Synthesizes the second messengers cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system.

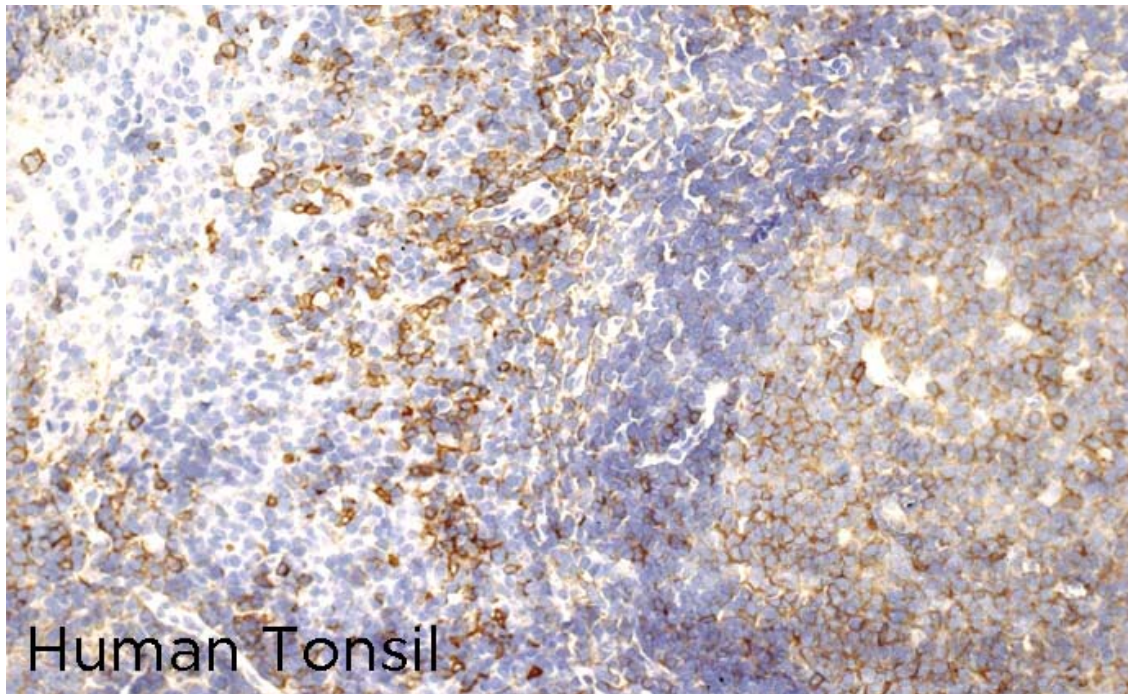
APPLICATIONS

| IHC Techniques | Clone | Dilution | Antibody concentration | Antigen retrieval method | Visualization kit | Positive control | Negative control | Protein localization | Positivity in other species |
|-----------------------------------|-------------|----------|------------------------|--------------------------|-------------------|------------------|------------------|----------------------|-----------------------------|
| Frozen tissue and cytopins | | | | | | | | | |
| Recommended | MIX18 7A | Neat | supernatant | | | | | | |
| Paraffin tissue | | | | | | | | | |
| Recommended | MIX18 7A | Neat | supernatant | Citrate | Novolink | Tonsil | | membrane | |
| Immunofluorescence | | | | | | | | | |

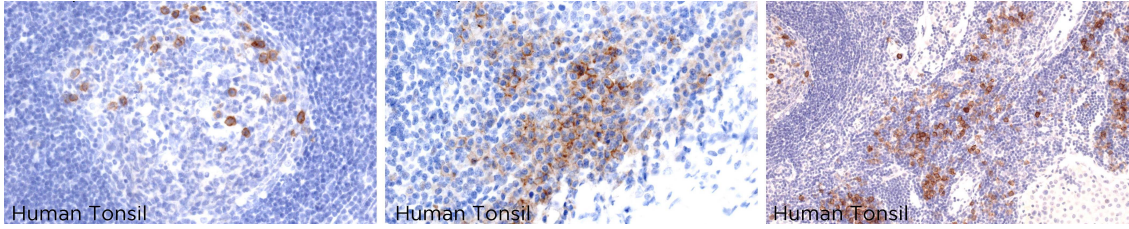


MIX187A mAb is able to detect human CD38 protein in immunocytochemistry.

To confirm that MIX187A mAb recognizes human CD38 protein, immunocytochemistry on frozen cytospin preparations of myc-tagged CD38 expressed in HEK293 was performed. Cytospin preparation of PLCG1-myc transfected cells was used as negative control. Anti-MYC antibody was used as positive control.

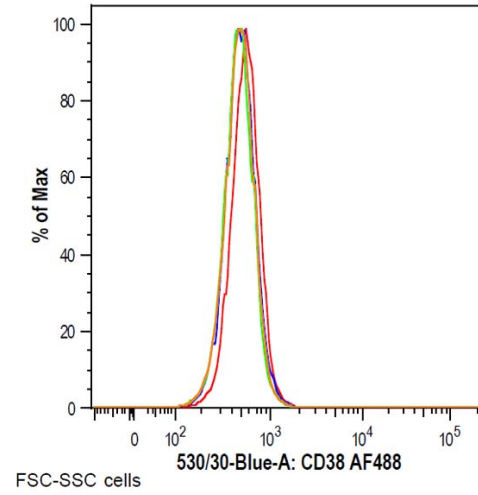
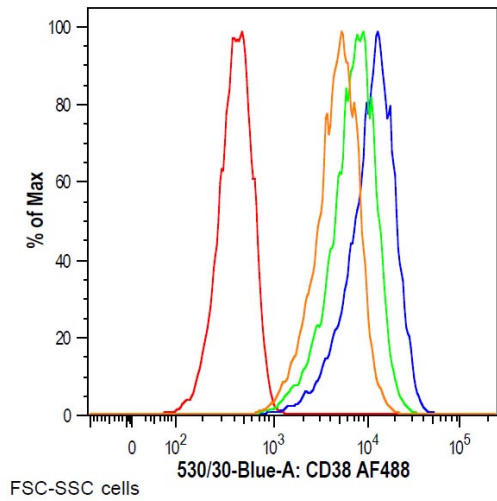


MIX187A antibody can be used to detect CD38 protein in human frozen tissues.



MIX187A antibody can be used to detect CD38 protein in human paraffin tissues.

| FLOW CYTOMETRY | Clone | Dilution | Positive control | Negative control | Type of fluorocrom |
|----------------|---------|----------------------|------------------|------------------|--------------------|
| Recommended | MIX187A | 1:200 Supernatant | | | |



| Sample | % |
|---------------------------------|------|
| 080915_LP1 1,2f,200.fcs | 96.5 |
| 080915_LP1 1,2f,100.fcs | 95.8 |
| 080915_LP1 1,2f,50.fcs | 96.6 |
| 080915_LP1 negative control.fcs | 96.2 |

| Sample | % |
|----------------------------------|------|
| 080915_KHM2 1,2f,200.fcs | 89.9 |
| 080915_KHM2 1,2f,100.fcs | 92.4 |
| 080915_KHM2 1,2f,50.fcs | 94.3 |
| 080915_KHM2 negative control.fcs | 95 |

MIX187A antibody can be used to detect CD38 in flow cytometry.