

Mouse Anti-S100A4 [S100A4/1481]: MC0931, MC0931RTU7

Intended Use: For Research Use Only

Description: S100A4 belongs to the S100 super-family of proteins containing 2 EF-hand calcium-binding domains. S100 genes include at least 25 members, including S100A1-S100A18, trichohyalin, filaggrin, repetin, S100P, and S100Z. S100A4 exerts its function via direct interaction with a number of proteins including P53, P63, non-muscle myosin IIA, $\alpha\beta4$ integrin, and liprin b1. S100A4 is overexpressed in highly metastatic cancers, which makes it useful as a marker of tumor progression.

Specifications

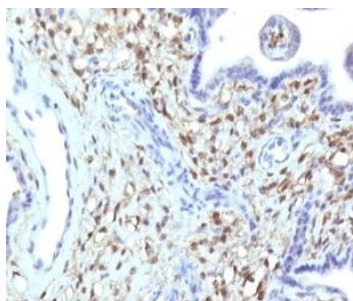
| | |
|---------------|--|
| Clone: | S100A4/1481 |
| Source: | Mouse |
| Isotype: | IgG1k |
| Reactivity: | Human, mouse |
| Immunogen: | Recombinant fragment of human S100A4 protein aa 1-200 |
| Localization: | Cytoplasm, nucleus |
| Formulation: | Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN3) |
| Storage: | Store at 2°- 8°C |
| Applications: | IHC, Flow Cyt., ICC/IF, WB |
| Package: | |

| Description | Catalog No. | Size |
|---------------------|-------------|------|
| S100A4 Concentrated | MC0931 | 1 ml |
| S100A4 Prediluted | MC0931RTU7 | 7 ml |

IHC Procedure*

| | |
|---------------------------|---|
| Positive Control Tissue: | Placenta |
| Concentrated Dilution: | 100-300 |
| Pretreatment: | Citrate pH6.0 or EDTA pH8.0, 15 min Pressure Cooker or 30-60 min water bath at 95°-99°C |
| Incubation Time and Temp: | 30-60 minutes @ RT |
| Detection: | Refer to the detection system manual |

* Result should be confirmed by an established diagnostic procedure.



FFPE human placenta stained with anti-S100A4 using DAB

References:

1. Characterization of urinary extracellular vesicle proteins in muscle-invasive bladder cancer. Silvers CR, et al Oncotarget 8:91199-91208, 2017.
2. Downregulation of caveolin-1 upregulates the expression of growth factors and regulators in co-culture of fibroblasts with cancer cells. Shi XY, et al. Mol Med Rep 13:744-52, 2016.
3. Regulation of the inflammatory profile of stromal cells in human breast cancer: prominent roles for TNF-a and the NF- κ B pathway. Katanov C, et al. Stem Cell Res Ther 6:87, 2015.