Human S100P Antibody

Monoclonal Mouse IgG_{2B} Clone # 357514

Catalog Number: MAB29571

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human S100P in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 357514
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human S100P Met1-Lys95 Accession # P25815
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 either lyophilized or as a 0.2 μm filtered solution in PBS.

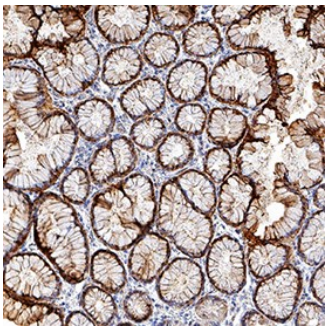
APPLICATIONS

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
Immunohistochemistry	0.5-25 µg/mL	See Below

DATA

Immunohistochemistry



S100P in Human Stomach. S100P was detected in immersion fixed paraffin-embedded sections of human stomach using Mouse Anti-Human S100P Monoclonal Antibody (Catalog # MAB29571) at 0.5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in gastric glands. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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.

BACKGROUND

Human S100P is a 22 kDa, homodimeric member of the S100 family of calcium-binding proteins. The S100 family currently has more than 20 members and belongs to the EF-hand superfamily of molecules. S100P is 95 aa in length and contains short, sequential modules. There is an N-terminal α-helix, a unique EF-hand motif, an α-helix, a linker region, an α-helix, a classic EF-hand motif and a C-terminal α-helix. The EF-hand motif binds calcium, which likely alters molecular conformation. The rearranged S100P now binds ligand with the linker region. Human S100P shares 47% aa sequence identity with rat S100P.

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