

S100 Polyclonal Antibody

Format	Catalog No.	Pack size	Dilution
Concentrated	G00036 A, B, C	0.1, 0.5, 1.0 mL	1:100 - 200
Prediluted	G00036 AA, BB	6.0, 3.0 mL	Ready to use

ANTIBODY SPECIFICATIONS

- **HOST SPECIES:** Rabbit
- **CLONE:** Polyclonal
- **ISOTYPE:** IgG
- **CELLULAR LOCALIZATION:** Cytoplasmic
- **IMMUNOGEN:** Recombinant protein encoding human S100 protein
- **MOLECULAR WEIGHT:** ~10 kDa.
- **SPECIES REACTIVITY:** Bovine, Human, Mouse, Rat
- **POSITIVE CONTROL:** Melanoma or Schwannoma

INTENDED USE

This antibody is intended **for research use only (RUO)** and is not approved for diagnostic or therapeutic applications. It is optimized for the detection of S100 protein in formalin-fixed, paraffin-embedded (FFPE) human tissues by immunohistochemistry (IHC).

SUMMARY AND APPLICATION

S100 is a member of the same family of calcium-binding proteins as troponin C and calmodulin. Alpha and beta chains make up S100A, whereas two beta chains make up S100B. Additionally, antigen-presenting cells including the skin's Langerhans cells and the lymph nodes' paracortex's interdigitating reticulum cells express the S100 protein.

SCIENTIFIC BACKGROUND:

The S100 protein family includes at least 25 members with similar structures and calcium-binding properties.

RECOMMENDED USAGE

- **IHC Protocol Highlights:**
 - Dilution: 1–2 µg/mL
 - Incubation: 30 minutes at room temperature
 - Antigen Retrieval: Heat in 10 mM Tris with 1 mM EDTA (pH 9.0) at 95°C for 45 minutes, followed by cooling
- **Specimen Type:** FFPE sections, preferably ~4 µm

FORMULATION & STORAGE:

- Buffer: 10 mM PBS, 0.05% BSA, 0.05% sodium azide
- Storage:

- o Dilution: 1–2 µg/MI
 - o Without azide: –20 to –80°C
- Shelf Life: 24 months under proper conditions
- Hazard Classification: Non-hazardous; no MSDS required

LIMITATIONS

- Interpretation must be made by a qualified pathologist
- Tissue fixation and handling may affect staining quality
- Negative results do not always indicate absence of antigen—consider panel testing

PRECAUTIONS

- Contains 0.05% sodium azide – avoid ingestion and contact with skin or mucosa
- Wear gloves and avoid contact with eyes or mucosa
- Do not use reagents past expiration or if packaging appears compromised
- Do not pipette by mouth or reuse slides/containers without proper sterilization

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com