

Rabbit anti-S100 protein Polyclonal Antibody

Storage: 2-8°C

Catalog No: P18-005 1ml
P18-005S 0.2ml
P18-005U 6ml

Intended Use and Background:

S-100 protein is a type of low molecular weight protein found in vertebrates characterized by two calcium binding sites of the helix-loop-helix ("EF-hand type") conformation. There are at least 21 different types of S100 proteins. Most S100 proteins are homodimeric, consisting of two identical polypeptides held together by non-covalent bonds. Several members of the S-100 protein family are useful as markers for certain tumors and epidermal differentiation. It can be found in melanomas, 50% of malignant peripheral nerve sheath tumors, and clear cell sarcomas.

This antibody stains schwannoma, ependymomas, astroglomas, almost all benign and malignant melanoma and their metasis.

Components:

Rabbit anti-S100 protein antibody is total immunoglobulin IgG purified from rabbit. It is stored in PBS buffer pH 7.4 with 1% BSA and 0.05% sodium azide.

Host species: Rabbit
Isotype: Total immunoglobulin IgG
Immunogen: Purified human S100 protein
Reacts with: Human, others not tested

Catalog No.	Format	Size
P18-005	Concentrate	1 ml
P18-005s	Concentrate	0.2ml
P18-005U	Ready-to-use	6ml

Positive Control: Melanoma or schwannoma

Pretreatment required: Not required

Cellular Localization: Cytoplasmic

Application: immunohistochemistry (IHC).

Recommended Protocol:

For concentrate antibody, the working dilution for formalin-fixed paraffin-embedded human tissue section is from 1:50-200 depending on the detection system used. Prediluted antibody is used directly without dilution. The optimal dilution needs to be determined by the investigator. **This antibody should not be diluted in buffer contains detergent.**

Manual staining procedure:

1. Deparaffinize slides.
2. Submerge slides in peroxidase quenching solution for 10 minutes and rinse with PBS 3 times, 2 minutes each.
3. Apply serum blocking solution (optional if use polymer detection system)
4. Apply primary antibody and incubate for 30-60 minutes at room temperature and rinse with PBS 3 times, 2 minutes each.
5. Apply secondary antibody conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
6. Apply enzyme conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
7. Apply chromogen and incubate 5-10 minutes and rinse with PBS.

Precaution:

Wear gloves and take other necessary laboratory safety procedure.

Storage: Store at 2-8°C.

Remarks: For research use only. Not for diagnostic or therapeutic use.