



Rev: A  
Release Date: 03/13/2014  
IVD

## S100 Beta (EP32)

Clone	EP32
Source	Rabbit Monoclonal
Cat #	PR070-6ml RTU PR070-3ml RTU CR070-0.5ml Concentrated CR070-0.1ml Concentrated
Regulatory Status	IVD

### Intended Use:

This antibody is intended for use to qualitatively identify specific antigen by light microscopy in formalin fixed, paraffin embedded tissue sections using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient's clinical history and other diagnostic tests. A qualified pathologist must perform evaluation of the test.

### Summary and Explanation:

S100 Beta is a homodimeric member of the S100 superfamily. S100 is a family of Ca<sup>2+</sup>-binding proteins, comprises 19 members that are differentially expressed in a large number of cell types. The protein has been implicated in cellular processes such as cell differentiation and growth. S100 Beta is abundant in glial cells of the central and peripheral nervous system, in melanocytes, chondrocytes, and adipocytes. Antibody to S100 Beta also labels Langerhans cells, histiocytes, epithelial, myoepithelial cells and integrating reticular cells of lymphoid tissue, and tumors originated from these cells. S100 Beta is a useful marker for diagnosis of melanoma, tumors of nerves system.

**Immunogen:** A synthetic peptide corresponding to residues on the C-terminus of human S100 Beta protein.

**Isotype:** Rabbit IgG

### Reagent Provided:

**Concentrated format:** Antibody to S100 Beta is affinity purified and diluted in antibody diluent, with 1% bovine serum albumin (BSA) and 0.05% sodium azide (NaN<sub>3</sub>).  
Recommended dilutions: 1:50 – 1:100.

The antibody dilution and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by individual laboratory.

**Pre-diluted format:** PathnSitu ready to use antibodies are pre titrated to optimal staining conditions. Further dilution may lose the activity and may yield to sub optimal staining conditions.

**Storage Recommendations:** Store at 2°-8°C. Do not use after expiration date provided on the vial.

**Staining Recommendations:**

**Antigen Retrieval Solution:** Use EDTA Buffer (PathnSitu cat# PS008) as antigen retrieval solution  
Heat Retrieval Method: Retrieve sections under steam pressure for 15 min using PathnSitu's MERS (Multi Epitope Retrieval System) then allow solution to cool for 10 minutes then transfer tissue sections/slides to distilled water.

**Primary Antibody:** Cover the tissue sections with primary antibody and incubate for 30 min at room temperature when used PathnSitu PolyExcel Detection System.

**Detection System:** Refer to PathnSitu PolyExcel detection system protocol or manufacturer's detection kit staining protocol when used other vendor detection system.

**Cellular Localization:** Cytoplasm

**Positive Control:** Skin or Melanoma

**Troubleshooting:** Follow the antibody specific protocol recommendations according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at

**Limitations and Warranty:** There are no warranties, expressed or implied, which extend beyond this description. PathnSitu is not liable for property damage, personal injury, or economic loss caused by this product.

**Bibliography:**

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S100 Beta, EP32 antibody has been created by Epitomics Inc., using Epitomics' proprietary rabbit monoclonal antibody technology covered under Patent No.'s 5,675,063 and 7,402,409.