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# Product Information

## MemDX™ Antibody Discovery - Human S100B (2-92) Membrane Protein, Partial, His- tag

Cat. No.: **MP0847F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human S100B (176-687). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

## Product Specifications

**Host Species**
Human

**Target Protein**
S100B

**Protein Length**
ECD

**Molecular Weight**
The protein has a calculated MW of 11.5 kDa. The protein migrates as 11 kDa under reducing (R) condition (SDS-PAGE).

**Sequence**
AA Ser 2 - Glu 92 (Accession # NP_006263)

## Product Description

**Application**
SDS-PAGE

**Expression Systems**
*E.coli*

**Tag**
His Tag at the N-terminus

**Protein Format**
Soluble

**Form**
LYOPH

**Reconstitution**
Please see Certificate of Analysis for specific instructions.

### Endotoxin

<1.0 EU/μg by the LAL method

### Purity

>95% as determined by SDS-PAGE.

### Buffer

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH8.0. Normally trehalose is added as protectant before lyophilization.

### Storage

Please protect from light and avoid repeated freeze-thaw cycles.
The product must be protected from light;

2-8 ° C for 12 months in liquid state.

## Target

### Target Protein

S100B

### Full Name

S100 calcium binding protein B

### Introduction

The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 21q22.3. This protein may function in Neurite extension, proliferation of melanoma cells, stimulation of Ca2+ fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. Chromosomal rearrangements and altered expression of this gene have been implicated in several neurological, neoplastic, and other types of diseases, including Alzheimer's disease, Down's syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.

### Alternative Names

NEF; S100; S100-B; S100beta; protein S100-B; S-100 calcium-binding protein, beta chain; S-100 protein subunit beta; S100 calcium-binding protein, beta (neural)

### Gene ID

6285

### UniProt ID

P04271

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