

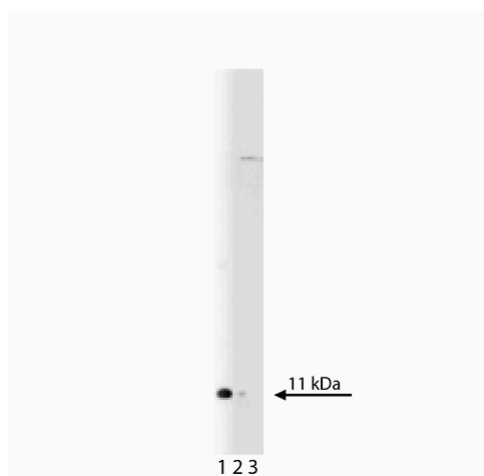
Technical Data Sheet

Purified Mouse Anti-Human S100P**Product Information**

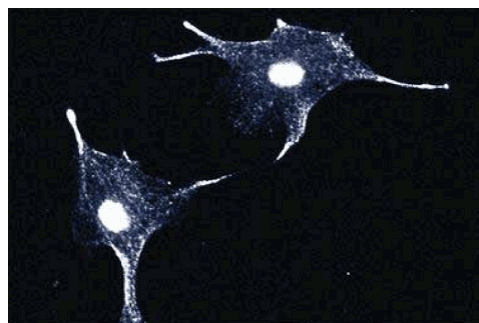
Material Number:	610306
Size:	50 µg
Concentration:	250 µg/ml
Clone:	16/S100P
Immunogen:	Human S100P aa. 1-95
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	11 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The S100 multigene family consists of a number of small dimeric molecules around 100 residues in length. The original members of this family, S100α and S100β, were initially identified in bovine brain. S100P is a novel member of this family which was isolated from human placenta. The S100 family consists of at least 10 members which show a cell-type-specific expression pattern. Most S100 proteins are believed to be involved in cytoplasmic Ca²⁺ control. S100P consists of 95 amino acids and shares about 50% sequence identity with S100α and S100β. Like other S100 proteins, S100P functions as a homodimer and binds two Ca²⁺ ions per monomer. Each S100P molecule contains both a low affinity and a high affinity Ca²⁺ binding site.



Western blot analysis of S100P on a human placenta lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-human S100P antibody.



Immunofluorescence staining of CPAE cells (Bovine pulmonary artery endothelial cells; ATCC CCL-209).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

Application Notes**Application**

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Not Recommended
Immunoprecipitation	Not Recommended

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Becker T, Gerke V, Kube E, Weber K. S100P, a novel Ca(2+)-binding protein from human placenta. cDNA cloning, recombinant protein expression and Ca2+ binding properties. *Eur J Biochem.* 1992; 207(2):541-547.(Biology)
Hellung Schonning B, Bevort M, Mikkelsen S, et al. Human papillomavirus type 16 E7-regulated genes: regulation of S100P and ADP/ATP carrier protein genes identified by differential-display technology. *J Gen Virol.* 2000; 81(4):1009-1015.(Biology: Western blot)