

## S100

CONTACT INFORMATION:	University of Oxford marketed by Ximbio.com
TYPE:	mouse anti human
CLONE NAME:	S1-61
PROTEIN:	S100
ANTIGEN USED:	S-100 protein conjugated to methylated BSA
FUSION PARTNER:	P3/NS1/1-Ag4.1
ISOTYPE:	IgG1
SPECIES REACTIVITY:	Human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze
COMMERCIALIZED BY:	Ximbio.com
APP RECOMMENDED:	IHC

### DESCRIPTION

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S-100 protein is an acidic protein antigen present on certain cells and useful as a marker in anatomic pathology.

The name is derived from the fact that the protein is 100% soluble in ammonium sulfate at neutral pH. The protein binds calcium and is structurally similar to calmodulin. The function of S-100 is unknown.

S-100 is normally present in cells derived from the neural crest (Schwann cells, melanocytes, and glial cells), chondrocytes, adipocytes, myoepithelial cells, macrophages, Langerhans cells, and dendritic cells. It may be present in some breast epithelial cells.

### PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

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Lab Invest. 1985 Feb;52(2):232-8.

Production of monoclonal antibodies directed against antigenic determinants common to the alpha- and beta-chain of bovine brain S-100 protein.

Vanstapel MJ, Peeters B, Cordell J, Heyns W, De Wolf-Peeters C, Desmet V, Mason D.

PMID: 2578587

<https://www.ncbi.nlm.nih.gov/pubmed/2578587>