

# Novocastra™ Liquid Rabbit Polyclonal Antibody S-100 Protein

## Product Code: NCL-L-S100p

<b>Intended Use</b>	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
<b>Specificity</b>	The antibody reacts with cow S-100 A and B, and crossreacts strongly with human S-100 A and B. The antibody also crossreacts with chicken, pig, kangaroo, dog, cat, monkey, mouse and rat S-100.
<b>Antigen Used for Immunizations</b>	S-100 isolated from cow brain.
<b>Preparation</b>	NCL-L-S100p is a liquid immunoglobulin fraction purified from rabbit serum diluted in PBS with 1% BSA containing sodium azide. Traces of crossreactive antibodies have been removed by solid-phase absorption with human plasma and cow serum. Volume as indicated on vial label.
<b>Effective on Frozen Tissue</b>	Yes (on frozen sections, S-100 tends to be eluted from the tissue during the staining procedure, as it is a highly soluble protein).
<b>Effective on Paraffin Wax Embedded Tissue</b>	Yes
<b>Recommendations on Use</b>	Immunohistochemistry on paraffin sections. <b>Epitope Retrieval:</b> Not recommended. <b>Suggested dilution:</b> 1:200 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. <b>Visualization:</b> Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems web site, <a href="http://www.LeicaBiosystems.com">www.LeicaBiosystems.com</a> <u>The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.</u> <b>Western Blotting:</b> Not evaluated.
<b>Positive Controls</b>	Immunohistochemistry: Bowel (peripheral nerve).
<b>Staining Pattern</b>	Cytoplasmic and nuclear.
<b>Storage and Stability</b>	Store at 2–8 °C. Do not freeze. Return to 2–8 °C immediately after use. Do not use after expiration date indicated on the vial label. Storage conditions other than those specified above must be verified by the user.
<b>Warnings and Precautions</b>	This reagent has been prepared from the supernatant of cell culture. As it is a biological product, reasonable care should be taken when handling it. This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from <a href="http://www.LeicaBiosystems.com">www.LeicaBiosystems.com</a>
<b>General Overview</b>	S-100A and S-100B proteins are two members of the S-100 family of proteins. S-100A is composed of an alpha and beta chain whereas S-100B is composed of two beta chains. S-100 protein is expressed in neuroectodermal tissue, including nerves and melanocytes. Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes also express S-100 protein.
<b>General References</b>	Chou Y-P, Lin J-W, Wang C-C et al. <i>Oncology Reports</i> . 2008; 19:49-56. Chang K-C, Tai M-H, Lin J-W et al. <i>International Journal of Cancer</i> . 2007; 121:1059-1065. Gelderman KA, Zijlman HJMAA, Vonk MJ et al. <i>Gut</i> . 2004; 53:507-513.

