Novocastra™ Lyophilized Mouse Monoclonal Antibody Ets-1 Oncoprotein

Product Code: NCL-ETS-1

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human Ets-1 oncoprotein.
Clone	1G11
Ig Class	IgG1, kappa
Antigen Used for Immunizations	Prokaryotic recombinant protein corresponding to amino acids 38 to 308 of the human Ets-1 oncoprotein isoform 2.
Hybridoma Partner	Mouse myeloma (p3-NS1-Ag4-1).
Preparation	Lyophilized tissue culture supernatant containing sodium azide. Reconstitute with the volume of sterile distilled water indicated on the vial label.
Effective on Frozen Tissue	Yes. Acetone fixation recommended.
Effective on Paraffin Wax Embedded Tissue	Yes.
Recommendations on Use	Immunohistochemistry on paraffin sections. **Heat Induced Epitope Retrieval (HIER):** Please follow the instructions for use in Novocastra Epitope Retrieval Solution pH 6. **Suggested dilution:** 1:50 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms. **Visualization:** 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, www.LeicaBiosystems.com
Positive Controls	Immunohistochemistry: Tonsil. Western Blotting: BRISTOL 8 cell line.
Staining Pattern	Nuclear.
Storage and Stability	Store unopened lyophilized antibody at 2-8 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 2-8 °C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
Warnings and Precautions	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 www.LeicaBiosystems.com

Leica Biosystems Newcastle Ltd
Balliol Business Park West
Benton Lane
Newcastle Upon Tyne NE12 8EW
United Kingdom
✆ +44 191 215 4242

General Overview

The proto-oncogene c-Ets-1 is a transcription factor known to regulate expression of a number of genes involved in extracellular matrix remodelling. The processes of tumor invasion and metastasis are thought to depend on the increased proteolytic activity of the invading tumor cells which may involve matrix metalloproteinases, cathepsins B and D and plasminogen activator in the metastatic cascade. Ets-1 interacts with the urokinase-type plasminogen activator gene enhancer and with the promoters of stromelysins-1 and collagenase-1 gene which may implicate it in this process. In situ hybridisation studies have indicated Ets-1 mRNA to be absent from normal colon mucosa but positive in endothelial cells of stromal capillaries and stromal fibroblasts, often with increased staining in fibroblasts adjacent to neoplastic cells.

General References

Pande P, Mathur M, Shukla N K, et al.. Journal of Pathology. 189: 40–45 (1999).
Nakayama T, Ito M, Ohtsuru A, et al.. American Journal of Pathology. 149 (6): 1931–1939 (1996).
Bories J C, Willerford D M, Grevin D, et al.. Nature. 377 (6550): 635–638 (1995).
Wernert N, Gilles F, Fafeur V, et al.. Cancer Research. 54: 5683–5688 (1994).
Wernert N, Raes M B, Lassalle P, et al.. American Journal of Pathology. 140 (1): 119–127 (1992).