



Rat Anti-LMO4 monoclonal antibody, clone 30G9 (CABT-RM150)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects LIM domain transcription factor LMO4 in murine species.
Target	LMO4
Immunogen	GST-tagged full-length mouse LIM domain transcription factor LMO4.
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	30G9
Purification	Protein G purified
Conjugate	unconjugated
Applications	IHC, IP, WB
Molecular Weight	~18 kDa observed; 17.99 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µl
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide

BACKGROUND

Introduction

LIM domain transcription factor LMO4 is encoded by the Lmo4 gene in murine species. LMO4 is a member of the LIM-only (LMO) family of transcription regulators that are known to serve as molecular adaptors and provide a scaffold for multiprotein complexes of DNA-binding factors and transcriptional regulatory proteins. It contains two zinc binding domains (aa 23-83 and 87-147). LMO4 is widely expressed and plays a role in embryonic development. It is shown to be over-expressed in breast carcinomas and act as a negative regulator of mammary epithelial differentiation. Overexpression of LMO4 induces mammary hyperplasia and promotes cell invasion. It is a good predictor of poor outcome in breast cancer. Mammary glands that are deficient in LMO4 display impaired lobuloalveolar development.

Keywords

LMO4; LIM domain only 4; LIM domain transcription factor LMO4; LMO-4; ethanol induced 4; breast tumor autoantigen; LIM domain only protein 4; Crp3; Etoh14; A730077C12Rik

GENE INFORMATION

Entrez Gene ID

[16911](#)

UniProt ID

[P61969](#)
