

Rabbit Anti-LEF1/TCF1 Alpha Polyclonal: RC0298

Intended Use: For Research Use Only

Description: LEF1 or TCF1 alpha participates in the Wnt signaling pathway, activates transcription of target genes in the presence of CTNNB1 and EP300. It may play a role in hair cell differentiation and follicle morphogenesis. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by LEF1 and CTNNB1. It regulates T-cell receptor alpha enhancer function. PIAG antagonizes both Wnt-dependent and Wnt-independent activation by LEF1. Isoform 3 lacks the CTNNB1 interaction domain and may be an antagonist for Wnt signaling. Isoform 5 transcriptionally activates the fibronectin promoter, binds to and represses transcription from the E-cadherin promoter in a CTNNB1-independent manner, and is involved in reducing cellular aggregation and increasing cell migration of pancreatic cancer cells. Isoform 1 transcriptionally activates MYC and CCND1 expression and enhances proliferation of pancreatic tumor cells. Detected in thymus but not detected in normal colon, but highly expressed in colon cancer biopsies and colon cancer cell lines. Expressed in several pancreatic tumors and weakly expressed in normal pancreatic tissue. Isoforms 1 and 5 are detected in several pancreatic cell lines.

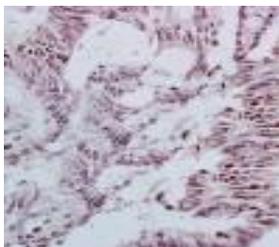
Specifications

Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus
 Formulation: Affinity purified, in 10 mM PBS pH 7.4 with 10 mg/ml BSA and 0.1% sodium azide (NaN₃).
 Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
 Applications: IHC for FFPE
 Package:

Description	Catalog No.	Size
LEF1/TCF1 Alpha Polyclonal Concentrated	RC0298	1 ml

IHC Procedure*

Positive Control Tissue: Tonsil, colon carcinoma
 Concentrated Dilution: 25-100
 Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



Human colon carcinoma FFPE stained with anti-LEF1 using DAB

References:

1. Expression of LEF1 is an independent prognostic factor for patients with oral squamous cell carcinoma. Su MC, et al. J Formos Med Assoc. Sep 7, 2013.
2. LEF-1 and TCF4 expression correlate inversely with survival in colorectal cancer. Kriegl L, et al. J Transl Med. Nov 22;8:123, 2010.
3. Expression patterns of hair and epithelial keratins and transcription factors HOXC13, LEF1, and beta-catenin in a malignant pilomatricoma: a histological and immunohistochemical study. Cribier B, et al. J Cutan Pathol. Jan;33(1):1-9, 2006.