

Rabbit Anti-GRB7 [EP308]: RM0371

Intended Use: For Research Use Only

Description: Growth factor receptor-bound protein-7 (Grb7) is a member of a family of adaptor molecules that regulates signal transduction pathways related to cell motility and tumorigenesis. In particular, Grb7 plays a role in cell migration by its interaction with focal adhesion kinase. In normal tissues, Grb7 is constitutively expressed in multiple tissues including the pancreas, kidney, placenta, prostate, intestine, colon, liver, lung and gonads. The Grb7 gene is located in the chromosomal region at 17q12-q21 in the HER-2/ErbB2 amplicon. In breast cancer, Grb7 has been shown to be co-amplified with HER-2 to synergistically enhance tumor formation in cases with 17q11-21 amplification. Furthermore, high Grb7 protein expression was determined as an independent prognostic factor for decreased survival. Grb7 overexpression was also associated with poor outcomes in triple-negative breast cancers, and correlative with severity of disease in chronic lymphocytic leukemia. Grb7 was observed in 67% of patients with pancreatic cancer with lymph node metastasis and 31% of esophageal carcinomas.

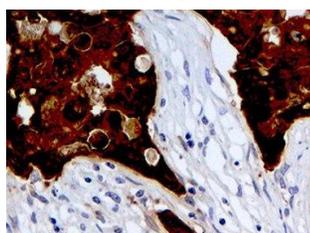
Specifications

Clone: EP308
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus, cytoplasm
 Formulation: Antibody in PBS pH7.5, containing 0.2% BSA and <0.1% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
GRB7 Concentrated	RM0371	1 ml

IHC Procedure

Positive Control: Breast, breast carcinoma
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 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.



FFPE human breast carcinoma tissue stained with anti-GRB7 using DAB

References:

1. Differential functions of growth factor receptor-bound protein 7 (GRB7) and its variant GRB7v in ovarian carcinogenesis. Wang Y, et al. Clin Cancer Res. 2010 May 1;16(9):2529-39.
2. Specific peptide ligand for Grb7 signal transduction protein and pancreatic cancer metastasis. Tanaka S, et al. J Natl Cancer Inst. Apr 5;98(7):491-8, 2006.
3. Expression of HER2 and the coamplified genes GRB7 and MLN64 in human breast cancer: quantitative real-time reverse transcription-PCR as a diagnostic alternative to immunohistochemistry and fluorescence in situ hybridization. Vinatzer U, et al. Clin Cancer Res. Dec 1;11(23):8348-57, 2005.

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