**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**

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>GRB7 Concentrated</td>
<td>RM0371</td>
<td>1 ml</td>
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</tbody>
</table>

**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](image_url)

**References:**