**Basic Information**

- **Catalog Number:** 17543-1-AP
- **Size:** 27 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG11604

**Gene Bank Accession Number:** BC041348
**Gene ID (NCBI):** 166968
**Full Name:** mesoderm induction early response 1, family member 3
**Calculated MW:** 522aa, 59 kDa
**Observed MW:** 55 kDa

**Recommended Dilutions:**
- **WB:** 1:500-1:1000

**Applications**

- **Tested Applications:** WB, ELISA
- **Cited Applications:** WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** mouse

**Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Positive Controls:**
- **WB:** mouse uterus tissue;

**Background Information**

The mesoderm induction early response (IER) protein family is known as fibroblast growth factor (FGF)-regulated immediate-early protein family. Activated by FGF, IER proteins may have a pivotal role in FGF-regulated cellular activities, indicating a potential influence in the progression of certain cancers [PMID:15117948]. IER3 localizes to the nucleus and primarily functions as a transcriptional repressor. Rat mammary carcinoma susceptibility 1b (Mcs1b) is a quantitative trait locus on RN02 that confers decreased susceptibility when Copenhagen (COP)-resistant alleles are introgressed into a Wistar Furth (WF)-susceptible genome. IER3 is a candidate Mcs1b gene [PMID:22993404].

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
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<th>Journal</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>Shih-Wei Chen</td>
<td>23354120</td>
<td>Mitochondrion</td>
<td>WB</td>
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**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

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E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
mouse uterus tissue were subjected to SDS PAGE followed by western blot with 11543-1-AP (MIE3 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours