Basic Information

- **Catalog Number:** 13842-1-AP
- **Size:** 150μl, Concentration: 240 μg/ml by Nanodrop and 187 μg/ml by Bradford method using BSA as the standard
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG4802
- **GenBank Accession Number:** BC037773
- **GeneID (NCBI):** B4448R
- **Full Name:** MYST histone acetyltransferase 1
- **Calculated MW:** 467 aa, 53 kDa
- **Observed MW:** 52 kDa
- **Purification Method:** Antigen affinity purification
- **Recommended Dilutions:** WB 1:500-1:2000, IP 0.5-4.0 μg for IP and 1:500-1:1000 for WB

Applications

- **Tested Applications:** IP, WB, ELISA
- **Cited Applications:** ChIP, IP, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse
- **Positive Controls:**
  - **WB:** HeLa cells, MCF-7 cells, rat liver tissue
  - **IP:** HeLa cells,

Background Information

MOF, also known as MYST1, KAT8, is a member of the MYST acetyltransferase family, which is homologous to Drosophila males absent on the first (MOF) protein. Deletion of MYST1 in cells leads to genomic instability, spontaneous chromosomal aberration, cell cycle defects, reduced transcription of certain genes and defective DNA damage repair (PMID: 32711345). MYST1 dually localizes to the nucleus and mitochondria of human cancer cells (PMID: 37813994). Western blot analysis detected MOF at an apparent molecular mass of 52 kDa.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guokai Yan</td>
<td>35266843</td>
<td>Autophagy</td>
<td>WB,IP</td>
</tr>
<tr>
<td>Yang Yang</td>
<td>29975939</td>
<td>Cell Physiol Biochem</td>
<td>WB</td>
</tr>
<tr>
<td>Ding Wang</td>
<td>24037710</td>
<td>Mol Cell Proteomics</td>
<td>WB</td>
</tr>
</tbody>
</table>

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

*** 20μl sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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.
HeLa cells were subjected to SDS PAGE followed by western blot with 13842-1-AP (MOF antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

IP Result of anti-MOF (IP: 13842-1-AP, 4ug; Detection: 13842-1-AP 1:600) with HeLa cells lysate 1200ug.