

**AM50638PU-S****Monoclonal Antibody to HINT2 - Purified**

<b>Alternate names:</b>	HINT-2, HINT-3, HIT-17kDa, Histidine triad nucleotide-binding protein 2, PKCI-1-related HIT protein
<b>Quantity:</b>	50 µl
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	Histidine triad nucleotide binding protein 2 (HINT2) is a mitochondrial protein. This protein is an AMP-lysine hydrolase and phosphoamidase and may contribute to tumor suppression. This protein is a member of the HIT superfamily and Hint subfamily, which are characterized as nucleotide hydrolases and transferases that act on the alpha-phosphate of ribonucleotides. HINT2 regulates steroidogenesis through calcium-dependent and calcium-independent signaling pathways that may serve to maintain a favorable mitochondrial potential. Its role in calcium homeostasis may also contribute to its proapoptotic function in hepatocytes and other non-steroidogenic cells, though the exact mechanism remains unclear.
<b>Uniprot ID:</b>	<a href="#">Q9BX68</a>
<b>NCBI:</b>	<a href="#">NP_115982</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10P (for use in human samples), AM03095PU-N
<b>Clone:</b>	AT5B10
<b>Immunogen:</b>	Recombinant human HINT2 (18-163aa) purified from E. coli.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Protein-A affinity chromatography <b>Buffer System:</b> Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.
<b>Applications:</b>	The antibody has been tested by ELISA, Western blot analysis and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	<b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Maize KM., et al. (2013) The FEBS journal. 280(14): 3389-3398. Lenglet S., et al. (2008) Endocrinology. 149(11): 5461-5469. Martin J., et al. (2006) Gastroenterology. 130(7): 2179-2188. Lee LR., et al. (2013) Cancer prevention research. 6(7): 731-743.

**Pictures:**

The recombinant human HINT2 (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HINT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : HINT2 Recombinant protein Lane 2. : HepG2 cell lysate Lane 3. : U87MG cell lysate Lane 4. : Mouse brain lysate

