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# THAP11 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1436a

## Product Information

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| **Application** | WB, IHC, FC, ICC, E |
| **Primary Accession** | Q96EK4 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 3F3 |
| **Isotype** | IgG1 |
| **Calculated MW** | 34455 |
| **Description** | The protein encoded by this gene contains a THAP domain, which is a conserved DNA-binding domain that has striking similarity to the site-specific DNA-binding domain (DBD) of Drosophila P element transposases. |
| **Immunogen** | Purified recombinant fragment of human THAP11 expressed in E. Coli. |
| **Formulation** | Ascitic fluid containing 0.03% sodium azide. |

## Additional Information

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| **Gene ID** | 57215 |
| **Other Names** | THAP domain-containing protein 11, THAP11 |
| **Dilution** | WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~N/A |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | THAP11 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | THAP11 |
| **Function** | Transcription factor, which has both transcriptional activation and repression activities (PubMed:31905202). Also modulates chromatin accessibility (PubMed:38361031). In complex with HCFC1 and ZNF143, |

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| | regulates the expression of several genes, including AP2S1, ESCO2, OPHN1, RBL1, UBXN8 and ZNF32 (PubMed:26416877). May regulate the expression of genes that encode both cytoplasmic and mitochondrial ribosomal proteins (By similarity). Required for normal mitochondrial development and function. Regulates mitochondrial gene expression, including that of components of the electron transport chain (By similarity). Involved in the maintainance of pluripotency in early embryonic cells, possibly through its action on mitochondrial maturation which is required to meet high energy demands of these cells (By similarity). Required for early development of retina, preventing premature exit of retinal progenitor cells from the cell cycle. This effect may also be mediated by its action on mitochondria (By similarity). Through the regulation of MMACHC gene expression, controls cobalamin metabolism (PubMed:28449119, PubMed:31905202). Required for normal brain development and neural precursor differentiation (By similarity). Involved in cell growth (PubMed:31905202). |
| **Cellular Location** | Nucleus. Cytoplasm Note=In oocytes, detected in the ooplasm, without evidence of its presence in the nucleus (By similarity). Found in the nucleus of undifferentiated embryonic stem cells (PubMed:18585351). Evenly distributed between nucleus and cytoplasm in skin fibroblasts (PubMed:37148549). {ECO:0000250\|UniProtKB:Q9JJD0, ECO:0000269\|PubMed:18585351, ECO:0000269\|PubMed:37148549} |
| **Tissue Location** | Expressed in skin fibroblasts. |

## References

1. Genomics. 1993 Jun;16(3):572-9. 2. Cell. 2008 Jun 27;133(7):1162-74. 3. Cell Death Differ. 2009 Mar;16(3):395-405.

## Images

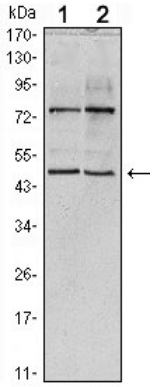



Figure 1: Western blot analysis using THAP11 mouse mAb against Hela (1) and NTERA-2 (2) cell lysate.

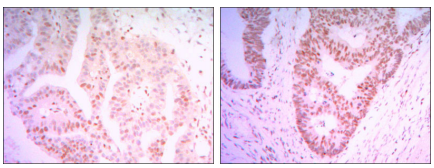
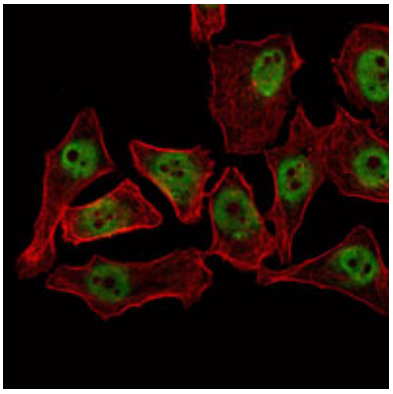


Figure 2: Immunohistochemical analysis of paraffin-embedded colon cancer tissues (left) and ovary cancer tissues (right) using THAP11 mouse mAb with DAB staining.

Figure 3: Immunofluorescence analysis of NTERA-2 cells using THAP11 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



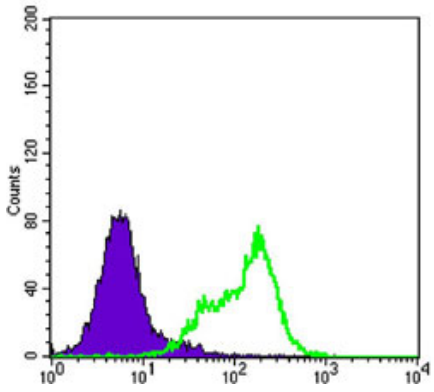



Figure 4: Flow cytometric analysis of Hela cells using THAP11 mouse mAb (green) and negative control (purple).