

DESCRIPTION

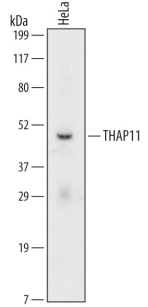
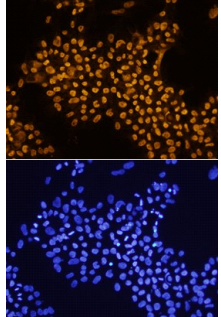
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse THAP11 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 605383
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived THAP11 Gly226-Met314 Accession # Q96EK4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

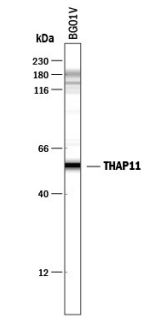

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below
Simple Western	20 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human THAP11 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. PVDF Membrane was probed with 2 µg/mL of Mouse Anti-Human/Mouse THAP11 Monoclonal Antibody (Catalog # MAB5727) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for THAP11 at approximately 47 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>THAP11 in BG01V Human Stem Cells. THAP11 was detected in immersion fixed undifferentiated BG01V human embryonic stem cells using Mouse Anti-Human/Mouse THAP11 Monoclonal Antibody (Catalog # MAB5727) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (yellow; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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<p>Simple Western</p>  <p>Detection of Human THAP11 by Simple Western™. Simple Western lane view shows lysates of BG01V human embryonic stem cells, loaded at 0.2 mg/mL. A specific band was detected for THAP11 at approximately 56 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human/Mouse THAP11 Monoclonal Antibody (Catalog # MAB5727). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p> 

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

THAP11, also known as Ronin, is a 36-44 kDa member of the thanatos-associated protein family. It is ubiquitously expressed and through its repression of c-Myc transcription, blocks cell proliferation. Human THAP11 is 314 amino acids (aa) in length. It contains a DNA-binding THAP zinc-finger domain (aa 5-81), an NLS (aa 98-104), a polyGln region (aa 104-146), an Ala-rich segment (aa 197-221) and a C-terminal coiled-coil region (aa 255-305). THAP11 is phosphorylated on Thr25. Over aa 226-314, human and mouse THAP11 are 100% identical in amino acid sequence.