

## TNAP Rabbit monoclonal antibody

Catalog: BS9818M

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Alkaline phosphatases (AP) are glycosyl-phosphatidylinositol (GPI)-anchored, dimeric, Zn<sup>2+</sup>-metallated glycoproteins that catalyze the hydrolysis of phospho-monoesters into an inorganic phosphate and an alcohol. There are at least four distinct but related alkaline phosphatases: intestinal (IAP), placental (PLAP), placental-like (ALP-1 or GCAP) and tissue non-specific (TNAP). The first three are located together on chromosome 2 while the tissue non-specific form is located on chromosome 1. TNAP is widely expressed in liver, kidney, bone, stomach and colon, and is therefore referred to as the tissue non-specific form of AP. TNAP, in conjunction with plasma cell membrane glycoprotein-1, function in bone mineralization; however, mice that lack a functional form of TNAP show normal skeletal development.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 57 kDa

### Swiss-Prot:

P05186

### Purification&Purity:

Protein A affinity purified

### Applications:

WB: 1:1000-1:5000 IHC/ICC: 1:50-1:200

IP: 1:50-1:200 FC: 1:10-1:100

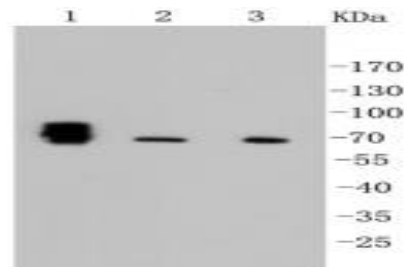
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

This antibody detects endogenous levels of TNAP and does not cross-react with related proteins.

### DATA:

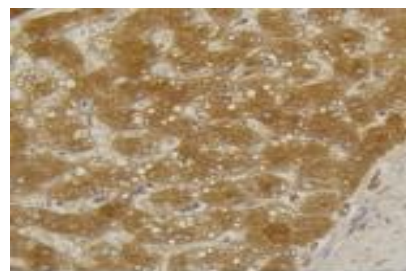


Western blot (WB) analysis of TNAP Rabbit mAb at 1:1000 dilution

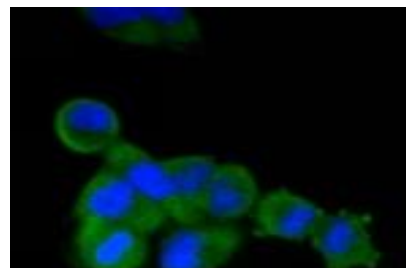
Lane1:Hela whole cell lysate

Lane2:HepG2 whole cell lysate

Lane3:MG-63 whole cell lysate



Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-ALP antibody. Counter stained with hematoxylin



ICC staining TNAP in Hela cells (green). The nuclear counter stain is DAPI (blue).

Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton \*100/PBS.

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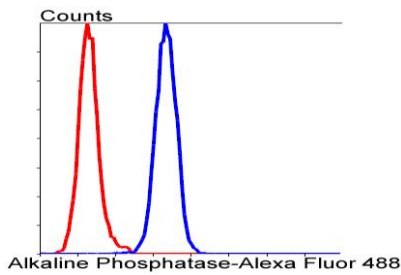
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**Note:**

For research use only, not for use in diagnostic procedure.

Flow cytometric analysis of Hela cells with TNAP antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

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