

Product datasheet

Anti-AMF antibody ab227472

3 Images

Overview

<b>Product name</b>	Anti-AMF antibody
<b>Description</b>	Rabbit polyclonal to AMF
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Rabbit, Cow, Pig, Chimpanzee 
<b>Immunogen</b>	Recombinant fragment within Human AMF (internal sequence). The exact sequence is proprietary. Database link: <a href="#">P06744</a>
<b>Positive control</b>	WB: Raji and NCI-H1299 whole cell lysate. IHC-P: NCI-N87 xenograft tissue. ICC/IF: HepG2 cells.
<b>General notes</b>	This product was previously labelled as Glucose 6 phosphate isomerase

Properties

<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab227472** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000 - 1/20000. Predicted molecular weight: 63 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

## Target

### Function

Besides its role as a glycolytic enzyme, mammalian GPI can function as a tumor-secreted cytokine and an angiogenic factor (AMF) that stimulates endothelial cell motility. GPI is also a neurotrophic factor (Neuroleukin) for spinal and sensory neurons.

### Pathway

Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glycerone phosphate from D-glucose: step 2/4.

### Involvement in disease

Defects in GPI are the cause of hemolytic anemia non-spherocytic due to glucose phosphate isomerase deficiency (HA-GPID) [MIM:613470]. It is a form of anemia in which there is no abnormal hemoglobin or spherocytosis. It is caused by glucose phosphate isomerase deficiency. Severe GPI deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment.

### Sequence similarities

Belongs to the GPI family.

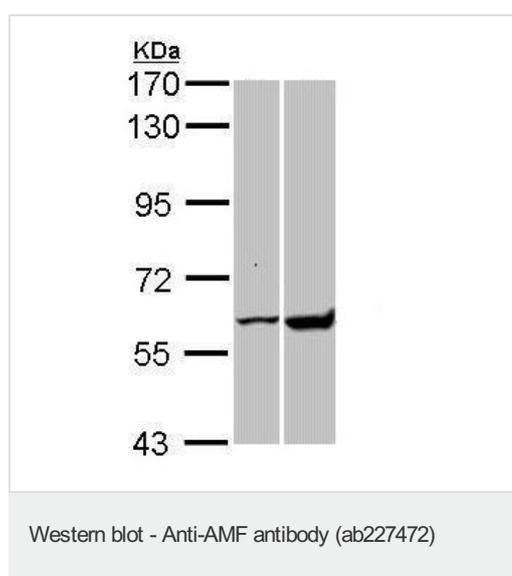
### Post-translational modifications

Phosphorylation at Ser-185 by CK2 has been shown to decrease enzymatic activity and may contribute to secretion by a non-classical secretory pathway. ISGylated.

### Cellular localization

Cytoplasm. Secreted.

## Images



**All lanes :** Anti-AMF antibody (ab227472) at 1/10000 dilution

**Lane 1 :** NCI-H1299 (human lung carcinoma cell line) whole cell lysate

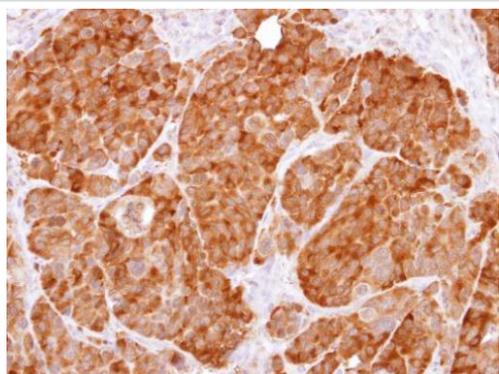
**Lane 2 :** Raji (human Burkitt's lymphoma cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

Developed using the ECL technique.

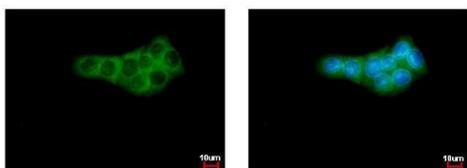
**Predicted band size:** 63 kDa

7.5% SDS-PAGE



Paraffin-embedded NCI-N87 xenograft tissue stained for AFM with ab227472 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AMF antibody (ab227472)



HepG2 (human liver hepatocellular carcinoma cell line) cells stained for AFM (green) using ab227472 at 1/500 dilution in ICC/IF. Cells were fixed in ice-cold methanol for 5 minutes.

Blue: Hoechst 33342 staining.

Immunocytochemistry/ Immunofluorescence - Anti-AMF antibody (ab227472)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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