Product datasheet

Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [2F4] ab126820

Overview

Product name
Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [2F4]

Description
Mouse monoclonal [2F4] to Alkaline Phosphatase, Tissue Non-Specific

Host species
Mouse

Tested applications
Suitable for: WB, ELISA, IHC-P, Flow Cyt, ICC/IF

Species reactivity
Reacts with: Human

Immunogen
Recombinant fragment corresponding to Human Alkaline Phosphatase, Tissue Non-Specific expressed in E.coli

Positive control
Recombinant Human ALPL protein (AA: 18-502), HeLa and NTERA-2 cell lysates. This antibody gave a positive result when used in the following formaldehyde/methanol fixed cell lines: HepG2

General notes
This product was changed from ascites to supernatant. Lot no’s high than GR307490-5 are from Tissue Culture Supernatant

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Store at -20ºC.

Storage buffer
Preservative: 0.05% Sodium azide
Constituent: 99% PBS

Purity
Protein G purified

Purification notes
Purified from tissue culture supernatant.

Clonality
Monoclonal

Clone number
2F4

Isotype
IgG1

Applications

Our Abpromise guarantee covers the use of ab126820 in the following tested applications.

3 References 7 Images
Function
This isozyme may play a role in skeletal mineralization.

Involvement in disease
Hypophosphatasia
- Hypophosphatasia childhood type
- Hypophosphatasia infantile type

Sequence similarities
Belongs to the alkaline phosphatase family.

Post-translational modifications
N-glycosylated.

Cellular localization
Cell membrane.

Images

All lanes: Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [2F4] (ab126820) at 1/500 dilution

Lane 1: Wild-type HAP1 whole cell lysate
Lane 2: ALPL knockout HAP1 whole cell lysate
Lane 3: Saos2 whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 57, 78.9 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab126820 observed at 80 kDa. Red - loading control, ab181602, observed at 37 kDa.
ab126820 was shown to specifically react with ALPL in wild-type HAP1 cells as signal was lost in ALPL knockout cells. Wild-type and ALPL knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab126820 and ab181602 (Rabbit anti-GAPDH loading control) were incubated overnight at 4°C at 1/500 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye®800CW) preabsorbed ab216772 and Goat anti-Rabbit IgG H&L (IRDye®680RD) preabsorbed ab216777 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [2F4] (ab126820) at 1/500 dilution + Recombinant Human protein ALPL (AA: 18-502)

**Predicted band size:** 57, 78.9 kDa

ICC/IF image of ab126820 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab126820 at 1/100 dilution overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- mouse (ab96879) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in methanol fixed (100%, 5min) hepG2 cells used at 1/100 dilution.
Western blot - Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [2F4] (ab126820)

All lanes: Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [2F4] (ab126820) at 1/500 dilution

Lane 1: HeLa cell lysate
Lane 2: NTERA-2 cell lysate

Predicted band size: 57, 78.9 kDa

Example of standard curves obtained using ab126820. Control antigen 100ng (black), antigen at 10ng (purple), antigen at 50ng (blue), antigen at 100ng (red)

Flow cytometry - Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [2F4] (ab126820)

Flow cytometric analysis of MCF-7 cells using ab126820 at 1/200 (green) and negative control (red).
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [2F4] (ab126820)

ab126820, at 1/200, staining Alkaline Phosphatase, Tissue Non-Specific in paraffin embedded Human ovarian cancer tissues by Immunohistochemistry with DAB staining.

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