Human Prostatic Acid Phosphatase/ACPP Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 911603R

Catalog Number: FAB62401G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Prostatic Acid Phosphatase/ACPP in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 911603R
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Prostatic Acid Phosphatase/ACPP Met1-Gln379 Accession # P15309
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

ELISA	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Prostatic Acid Phosphatase (ACPP) catalyzes the hydrolysis of a variety of phosphate monoesters, including phosphorylated proteins (1). The activity optimum of ACPP is in the pH range of 4 - 6, and the activity is inhibited by L(+)-tartrate. ACPP expression levels are highest in the prostate, with much lower expression in most other tissues. ACPP is a type I integral membrane protein of the plasma membrane and lysosomes, and a secreted form also exists (2). The concentration of ACPP is elevated in the circulation of prostate cancer patients, making the enzyme a marker for the progression of prostate cancer (3). Cellular ACPP has been shown to be a protein tyrosine phosphatase (4). Protein substrates include the epidermal growth factor receptor and HER-2 (5). Cellular ACPP is considered to function as a tumor suppressor (5).

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