

# CoraLite® Plus 488-conjugated PTEN Polyclonal antibody

Catalog Number: CL488-22034

Featured Product

## Basic Information

**Catalog Number:**

CL488-22034

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG17274

**GenBank Accession Number:**

BC005821

**GeneID (NCBI):**

5728

**UNIPROT ID:**

P60484

**Full Name:**

phosphatase and tensin homolog

**Calculated MW:**

47 kDa

**Observed MW:**

55 kDa, 68 kDa

**Purification Method:**

Antigen affinity purification

**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:****Species Specificity:**

human, mouse

## Background Information

PTEN (Phosphatase and tensin homolog) is also named as MMAC1, TEP1 and it modulates cell cycle progression and cell survival (blockage) through down-regulating the positive cell cycle-regulator (cycle D1) by its phosphatase activity and up-regulating the negative cell cycle regulator p21 (by its lipid phosphatase activity). PTEN is an important tumor suppressor whose inactivation frequency in cancers is ranked second after p53 tumor suppressor inactivation. PTEN is a 403-residue protein structured in an amino (N)-terminal phosphatase domain and a carboxy (C)-terminal C2 domain that binds phospholipid membranes (PMID:14749127). There are some reports showing that SUMOylation appears to be a positive regulator in controlling PTEN membrane association, whereas phosphorylation is a negative regulator that may neutralize SUMOylation through intramolecular electrostatic interactions (PMID:22713753). This antibody can recognize two isoforms with MW of 55 kDa and 68 kDa.

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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