PTEN (Ab-370) polyclonal antibody

Catalog: BCP01382 Host: Rabbit Reactivity: Human,Rat,Mouse

BackGround:

PTEN (phosphatase and tensin homologue deleted on chromosome ten), also referred to as MMAC (mutated in multiple advanced cancers) phosphatase, is a tumor suppressor implicated in a wide variety of human cancers. PTEN encodes a 403 amino acid polypeptide originally described as a dual-specificity protein phosphatase. The main substrates of PTEN are inositol phospholipids generated by the activation of the phosphoinositide 3-kinase (PI3K). PTEN is a major negative regulator of the PI3K/Akt signaling pathway. PTEN possesses a carboxy-terminal, noncatalytic regulatory domain with three phosphorylation sites (Ser380, Thr382, and Thr383) that regulate PTEN stability and may affect its biological activity. PTEN regulates p53 protein levels and activity and is involved in G protein-coupled signaling during chemotaxis.

Product:

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

Molecular Weight:

~ 50 kDa

Swiss-Prot:

P60484

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IF: 1:50~1:200

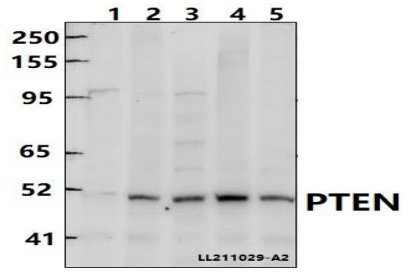
Storage&Stability:

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

Specificity:

PTEN (Ab-370) polyclonal antibody detects endogenous levels of PTEN protein.

DATA:



Western blot (WB) analysis of PTEN (Ab-370) polyclonal antibody at 1:1000 dilution

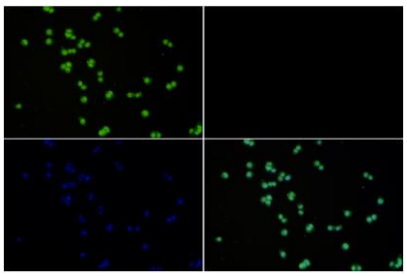
Lane1:THP-1 whole cell lysate(40ug)

Lane2:Hela whole cell lysate(40ug)

Lane3:MCF-7 whole cell lysate(40ug)

Lane4:AML-12 whole cell lysate(40ug)

Lane5:C6 whole cell lysate(40ug)



Immunofluorescence analysis of MCF-7 cells using PTEN antibody at dilution of 1:50.

Note:

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

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