

Rabbit anti-Human PSPH Polyclonal Antibody | anti-PSPH antibody

Anti-PSPH Antibody, Rabbit Polyclonal

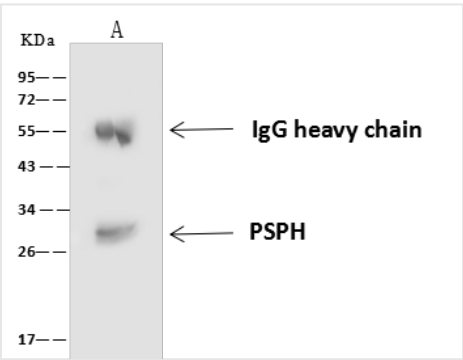
CATALOG # AAA256011	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

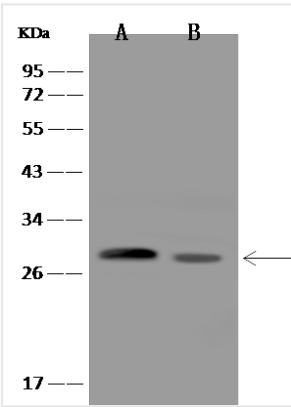
PSPH; Polyclonal Antibody; Anti-PSPH Antibody; Rabbit Polyclonal; PSPH Antibody; Rabbit PAb; Antigen Affinity Purified; phosphoserine phosphatase; Anti-PSP Antibody; Anti-PSPHD Antibody; anti-PSPH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PSPH
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PSPH antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	E Coli-derived Human PSPH fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human PSPH fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)
PSPH was immunoprecipitated using: Lane A: 0.5 mg A431 Whole Cell Lysate 4 uL anti-PSPH rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-PSPH rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 25 kDa. Observed band size: 28 kDa.



WB (Western Blot)
Anti-PSPH rabbit polyclonal antibody at 1:500 dilution. Lane A: A431 Whole Cell Lysate. Lane B: Mouse brain tissue lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 25 kDa. Observed band size: 28 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PSPH antibody	Phosphoserine phosphatase (PSPH) belongs to a subfamily of the phosphotransferases. PSPH is the rate-limiting enzyme in l-serine biosynthesis. It has previously been found that Phosphoserine phosphatase (PSPH) plays a role in epidermal homeostasis. Phosphoserine phosphatase (PSP) catalyzes the hydrolysis of phosphoserine to serine. Phosphoserine phosphatase (PSPH) expression has been examined in human-mouse somatic cell hybrids retaining different combination of human chromosomes. Phosphoserine phosphatase (PSPH) is expressed throughout the proliferative layer of the epidermis and hair follicles in rodent and human skin and is highly induced in SCC. In keratinocytes, Phosphoserine phosphatase (PSPH) is a cytoplasmic protein that primarily localizes to endosomes and is present primarily as a homodimer. Knock down of Phosphoserine phosphatase (PSPH) dramatically diminished SCC cell proliferation and cyclin D1 levels in the presence of exogenous of l-serine production suggesting a non-canonical role for Phosphoserine phosphatase (PSPH) in epithelial carcinogenesis. Phosphoserine phosphatase (PSPH) is highly induced in proliferative normal keratinocytes and skin tumors. Phosphoserine phosphatase (PSPH) appears to be critical for the proliferation of SCC cells; however, this phenomenon may not involve the phosphoserine metabolic pathway.
References	Bachelor MA, et al. (2011) L-3-Phosphoserine phosphatase (PSPH) regulates cutaneous squamous cell carcinoma proliferation independent of L-serine biosynthesis. J Dermatol Sci. 63(3): 164-72. Koch GA, et al. (1983) Assignment of the human phosphoserine phosphatase gene (PSP) to the pter leads to q22 region of chromosome 7. Cytogenet Cell Genet. 35(1): 67-9. Jaeken J, et al. (1997) Phosphoserine phosphatase deficiency in a patient with Williams syndrome. J Med Genet. 34(7): 594-6.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.