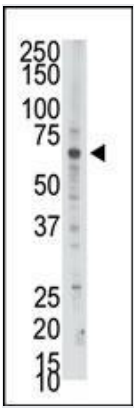
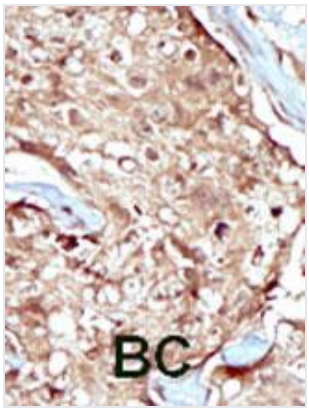
PAPSS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAPSS2, Polyclonal Antibody
Full Product Name	PAPSS2, CT (PAPS Synthase 2, PAPSS 2, 3'-phosphoadenosine 5'-phosphosulfate Synthase 2, ATPSK2, Bifunctional 3'-phosphoadenosine 5'-phosphosulfate Synthase 2, Sulfurylase Kinase 2, SK 2, SK2)
Product Gene Name	anti-Papss2 antibody
Product Synonym Names	Anti -PAPSS2, CT (PAPS Synthase 2, PAPSS 2, 3'-phosphoadenosine 5'-phosphosulfate Synthase 2, ATPSK2, Bifunctional 3'-phosphoadenosine 5'-phosphosulfate Synthase 2, Sulfurylase Kinase 2, SK 2, SK2)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein G affinity chromatography.
Specificity	Recognizes human PAPSS2.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Chromosome Location	Chromosome: 1; NC_005100.2 (236592414..236677379). Location: 1q52
Immunogen	Synthetic peptide selected from the C-terminal region of human PAPSS2 (KLH).
Product Categories/Family for anti-Papss2 antibody	Antibodies; Abs to Enzymes; Synthase
Applications Tested/Suitable for anti-Papss2 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-Papss2 antibody	Suitable for use in ELISA, Western Blot, and Immunohistochemistry. Dilution: ELISA: 1:1,000 Western Blot: 1:100-1:500 Immunohistochemistry: 1:50-1:100
Related Product Information for anti-Papss2 antibody	Three-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) is the sulfate donor cosubstrate for all sulfotransferase (SULT) enzymes. SULTs catalyze the sulfate conjugation of many endogenous and exogenous compounds, including drugs and other xenobiotics. In humans, PAPS is synthesized from adenosine 5-prime triphosphate (ATP) and inorganic sulfate by 2 isoforms, PAPSS1 and PAPSS2.
Other Notes	Small volumes of anti-Papss2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Papss2 purchase	MBS628524 is an antibody targeting Papss2. Also known as PAPSS2, CT (PAPS Synthase 2, PAPSS 2, 3'-phosphoadenosine 5'-phosphosulfate Synthase 2, ATPSK2, Bifunctional 3'-phosphoadenosine 5'-phosphosulfate Synthase 2, Sulfurylase Kinase 2, SK 2, SK2). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-Papss2 antibody
The anti-PAPSS2 Pab is used in Western blot to detect PAPSS2 in Jurkat cell lysate.



Immunohistochemistry (IHC) of anti-Papss2 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Papss2. It may not necessarily be applicable to this product.

NCBI GI #	197246495
NCBI GeneID	294103
NCBI Official Full Name	Papss2 protein
NCBI Official Synonym Full Names	3'-phosphoadenosine 5'-phosphosulfate synthase 2
NCBI Official Symbol	Papss2
NCBI Official Synonym Symbols	MGC189455
Protein Family	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase
NCBI Protein Information	bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 2
UniProt Comments for Papss2	PAPSS2: Bifunctional enzyme with both ATP sulfurylase and APS kinase activity, which mediates two steps in the sulfate activation pathway. The first step is the transfer of a sulfate group to ATP to yield adenosine 5'-phosphosulfate (APS), and the second step is the transfer of a phosphate group from ATP to APS yielding 3'-phosphoadenylylsulfate (PAPS: activated sulfate donor used by sulfotransferase). In mammals, PAPS is the sole source of sulfate; APS appears to be only an intermediate in the sulfate- activation pathway. May have a important role in skeletogenesis during postnatal growth. Defects in PAPSS2 are the cause of spondyloepimetaphyseal dysplasia Pakistani type (SEMD-PA). A bone disease characterized by epiphyseal dysplasia with mild metaphyseal abnormalities. Clinical features include short stature evidenced at birth, short and bowed lower limbs, mild brachydactyly, kyphoscoliosis, abnormal gait, enlarged knee joints. Some patients may manifest premature pubarche and hyperandrogenism associated with skeletal dysplasia and short stature. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Energy Metabolism - sulfur; EC 2.7.1.25; Other Amino Acids Metabolism - selenoamino acid; Nucleotide Metabolism - purine; EC 2.7.7.4; Transferase Molecular Function: adenylylsulfate kinase activity; ATP binding; sulfate adenylyltransferase (ATP) activity Biological Process: sulfate assimilation; blood coagulation; phosphorylation; 3'-phosphoadenosine 5'-phosphosulfate biosynthetic process
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