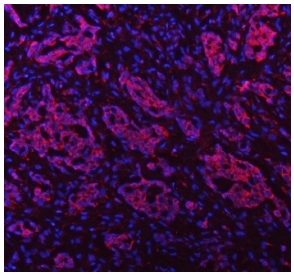
PAPSS2 Antibody (RQ8178)

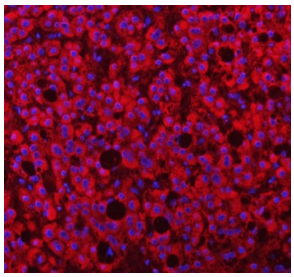
Catalog No.	Formulation	Size
RQ8178	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

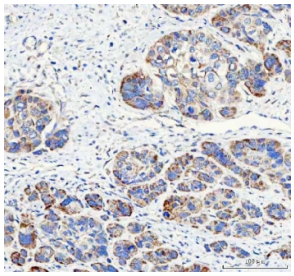
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O95340
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This PAPSS2 antibody is available for research use only.



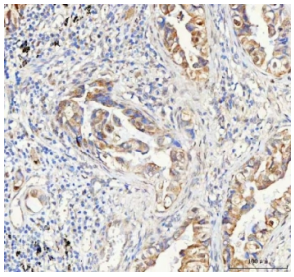
Immunofluorescent staining of FFPE human lung adenocarcinoma tissue with PAPSS2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



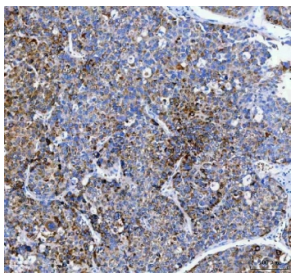
Immunofluorescent staining of FFPE human liver cancer tissue with PAPSS2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



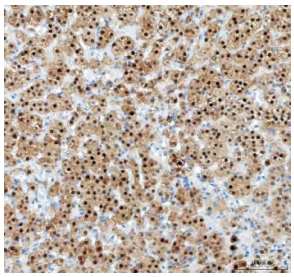
IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with PAPSS2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



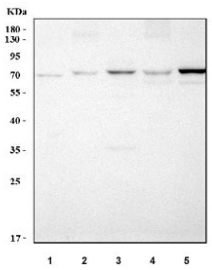
IHC staining of FFPE human lung cancer tissue with PAPSS2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



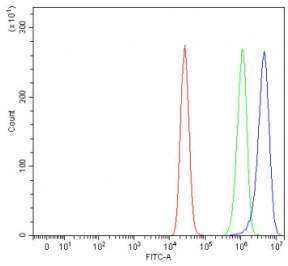
IHC staining of FFPE human liver cancer tissue with PAPSS2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human adrenocortical adenoma tissue with PAPSS2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HepG2, 2) rat liver, 3) rat kidney, 4) mouse liver and 5) mouse kidney tissue lysate with PAPSS2 antibody. Predicted molecular weight ~70 kDa.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with PAPSS2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PAPSS2 antibody.

Description

Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthetase 2 is an enzyme that in humans is encoded by the PAPSS2 gene. Sulfation is a common modification of endogenous (lipids, proteins, and carbohydrates) and exogenous (xenobiotics and drugs) compounds. In mammals, the sulfate source is 3'-phosphoadenosine 5'-phosphosulfate (PAPS), created from ATP and inorganic sulfate. Two different tissue isoforms encoded by different genes synthesize PAPS. This gene encodes one of the two PAPS synthetases. Defects in this gene cause the Pakistani type of spondyloepimetaphyseal dysplasia. Two alternatively spliced transcript variants that encode different isoforms have been described for this gene.

Application Notes

Optimal dilution of the PAPSS2 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids E212-H320) was used as the immunogen for the PAPSS2 antibody.

Storage

After reconstitution, the PAPSS2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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