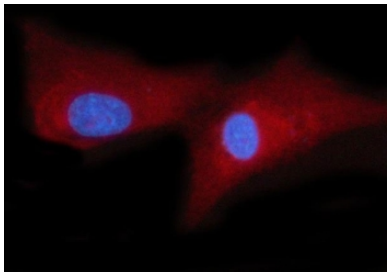
WRS Antibody / WARS1 / Tryptophanyl-tRNA synthetase (RQ7759)

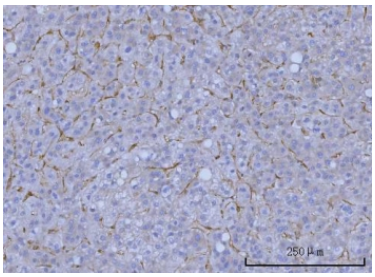
Catalog No.	Formulation	Size
RQ7759	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

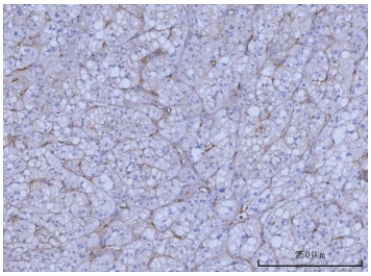
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P23381
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This WRS antibody is available for research use only.



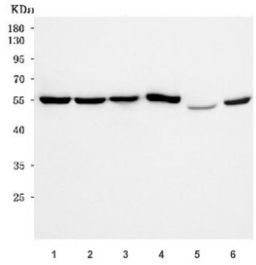
Immunofluorescent staining of FFPE human U-87 MG cells with WRS antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



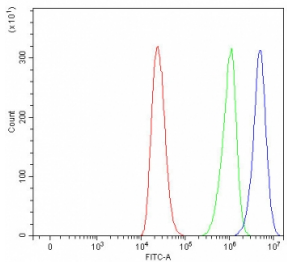
IHC staining of FFPE human liver cancer tissue with WRS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human adrenocortical adenoma tissue with WRS 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) human HeLa, 3) human Jurkat, 4) human MCF7, 5) mouse brain and 6) mouse lung tissue lysate with WRS antibody. Predicted molecular weight ~53 kDa.



Flow cytometry testing of human ThP-1 cells with WRS antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= WRS antibody.

Description

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. Tryptophanyl-tRNA synthetase (WARS) catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by interferon. Tryptophanyl-tRNA synthetase belongs to the class I tRNA synthetase family. Four transcript variants encoding two different isoforms have been found for this gene.

Application Notes

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

Immunogen

E. coli-derived recombinant human protein (amino acids E5-K369) was used as the immunogen for the WRS antibody.

Storage

After reconstitution, the WRS 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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