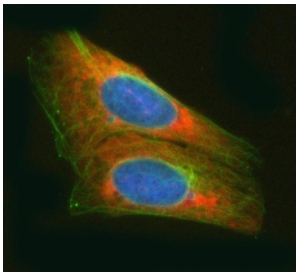
ArgRS Antibody / RARS1 / Arginyl-tRNA synthetase (RQ7768)

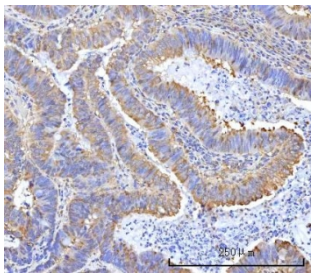
Catalog No.	Formulation	Size
RQ7768	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

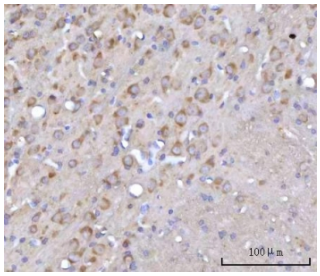
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P54136
Localization	Cytoplasmic
Applications	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 ArgRS antibody is available for research use only.



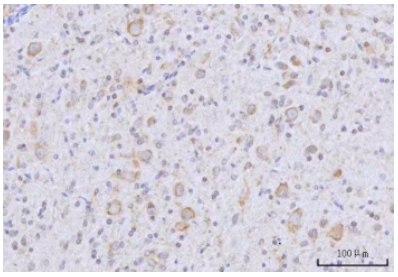
Immunofluorescent staining of FFPE human U-2 OS cells with ArgRS antibody (red), Alpha Tubulin mAb (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



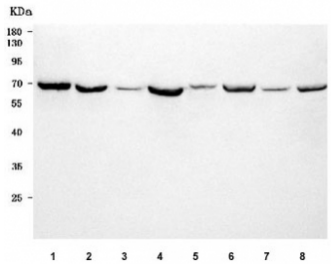
IHC staining of FFPE human intestinal cancer tissue with ArgRS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



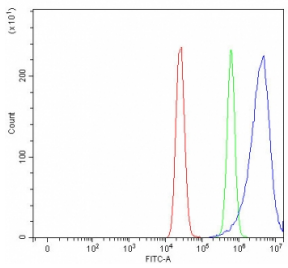
IHC staining of FFPE mouse brain tissue with ArgRS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with ArgRS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human MCF7, 3) human A431, 4) human 293T, 5) rat liver, 6) rat RH35, 7) mouse liver and 8) mouse NIH 3T3 cell lysate with ArgRS antibody. Predicted molecular weight ~75 kDa and ~67 kDa (two isoforms).



Flow cytometry testing of human MCF7 cells with ArgRS antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ArgRS 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. Arginyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family.

Application Notes

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

Immunogen

E. coli-derived recombinant human protein (amino acids H165-M425) was used as the immunogen for the ArgRS antibody.

Storage

After reconstitution, the ArgRS 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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