

For Research Use Only

AARS Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 87581-3-PBS



Basic Information

Catalog Number: 87581-3-PBS	GenBank Accession Number: BC011451	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 16	CloneNo.: 253004E4
Source: Rabbit	UNIPROT ID: P49588	
Isotype: IgG	Full Name: alanyl-tRNA synthetase	
Immunogen Catalog Number: AG11294	Calculated MW: 968 aa, 107 kDa	

Applications

Tested Applications:
Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Product Information

87581-3-PBS targets AARS as part of a matched antibody pair:

MP03098-1: 87581-4-PBS capture and 87581-3-PBS detection (validated in Cytometric bead array)

MP03098-2: 87581-5-PBS capture and 87581-3-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

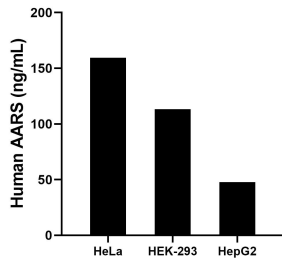
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

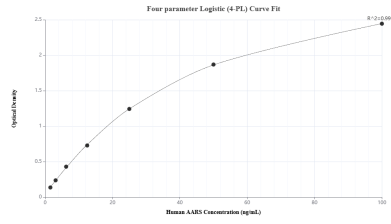
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

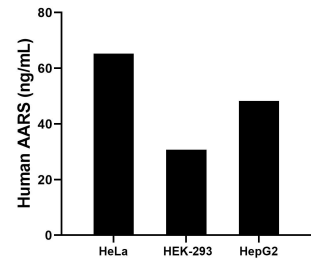
Selected Validation Data



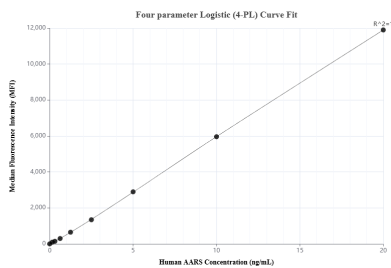
The mean AARS concentration was determined to be 159.36 ng/mL in HeLa cell extract based on a 1.2 mg/mL extract load, 113.33 ng/mL in HEK-293 cell extract based on a 1.2 mg/mL extract load and 47.64 ng/mL in HepG2 cell extract based on a 1.2 mg/mL extract load.



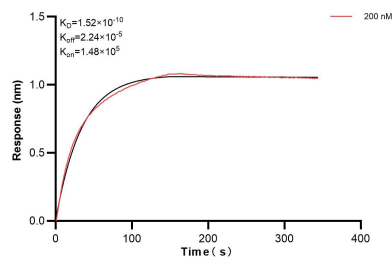
Sandwich ELISA standard curve of MP03098-2, Human AARS Recombinant Matched Antibody Pair - PBS only. 87581-5-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag11294. 87581-3-PBS was HRP conjugated as the detection antibody. Range: 1.56-100 ng/mL



The mean AARS concentration was determined to be 65.3 ng/mL in HeLa cell extract based on a 1.2 mg/mL extract load, 30.7 ng/mL in HEK-293 cell extract based on a 1.2 mg/mL extract load, 48.3 ng/mL in HepG2 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP03098-1, AARS Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87581-4-PBS. Detection antibody: 87581-3-PBS. Standard: Ag11294. Range: 0.156-20 ng/mL



Biolayer interferometry (BLI) kinetic assay of 87581-3-PBS against Human AARS was performed. The affinity constant is 0.152 nM.