

**DATASHEET**

**Asparagine Synthetase Rabbit Polyclonal Antibody**

CAT. NO. APA12765

**KEY FEATURES**

Target	Asparagine Synthetase	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

The protein encoded by this gene is involved in the synthesis of asparagine. This gene complements a mutation in the temperature-sensitive hamster mutant ts11, which blocks progression through the G1 phase of the cell cycle at nonpermissive temperature. Alternatively spliced transcript variants have been described for this gene.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to Asparagine Synthetase
Specificity	Recognizes endogenous levels of Asparagine Synthetase protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Asparagine Synthetase
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 54; Observed: 64 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	TS11; Asparagine synthetase [glutamine-hydrolyzing]; Cell cycle control protein TS11; Glutamine-dependent asparagine synthetase
Gene Symbol	ASNS
Entrez Gene	440(Human); 27053(Mouse); 25612(Rat)
SwissProt	P08243(Human); Q61024(Mouse); P49088(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

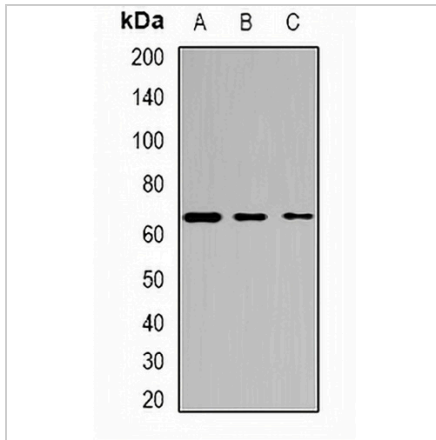
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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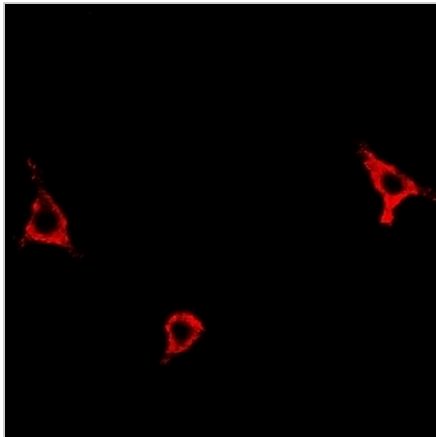
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**DATA**



Western blot analysis of Asparagine Synthetase expression in MCF7 (A), K562 (B), mouse testis (C) whole cell lysates. (Predicted band size: 54; 62; 64 kD; Observed band size: 64 kD)



Immunofluorescent analysis of Asparagine Synthetase staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.