DATASHEET

TUSC4 Rabbit Polyclonal Antibody

CAT. NO. APA13581

KEY FEATURES

Target	TUSC4	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	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

Catalytic component of the GATOR1 complex, a multiprotein complex that functions as an inhibitor of the amino acid-sensing branch of the mTORC1 pathway . In response to amino acid depletion, the GATOR1 complex has GTPase activating protein (GAP) activity and strongly increases GTP hydrolysis by RagA/RRAGA (or RagB/RRAGB) within heterodimeric Rag complexes, thereby turning them into their inactive GDP-bound form, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling . In the presence of abundant amino acids, the GATOR1 complex is ubiquitinated and inhibited by GATOR2 .

APPLICATION

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

WB	1:500 - 1:1000

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

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to TUSC4
Specificity	Recognizes endogenous levels of TUSC4 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human TUSC4
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 23; Observed: 44 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	TUSC4; Nitrogen permease regulator 2-like protein; NPR2-like protein; Gene 21 protein; G21 protein; Tumor suppressor candidate 4
Gene Symbol	NPRL2
Entrez Gene	10641(Human); 56032(Mouse)
SwissProt	Q8WTW4(Human); Q9WUE4(Mouse)

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

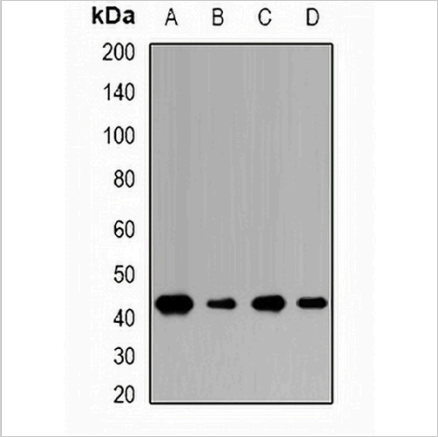
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA



Western blot analysis of TUSC4 expression in HL60 (A), U937 (B), mouse brain (C) whole cell lysates. (Predicted band size: 23; 43 kD; Observed band size: 44 kD)

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.