

FLJ20259 Rabbit pAb

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Catalog # AP56124

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q2TAL8
Reactivity	Rat, Human
Predicted	Pig, Dog, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86436
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FLJ20259
Epitope Specificity	601-700/776
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Glutamine-rich 1 is a 776 amino acid protein containing one CARD domain, which is normally found in proteins that are related to inflammation and apoptosis processes. CARD domains are found in a wide variety of proteins including kinases, caspases, and helicases. The gene encoding Glutamine-rich 1 maps to human chromosome 3. Chromosome 3 is made up of about 214 million bases encoding over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

Additional Information

Gene ID	54870
Other Names	Transcriptional regulator QRICH1, Glutamine-rich protein 1, QRICH1 {ECO:0000303 PubMed:33384352, ECO:0000312 HGNC:HGNC:24713}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

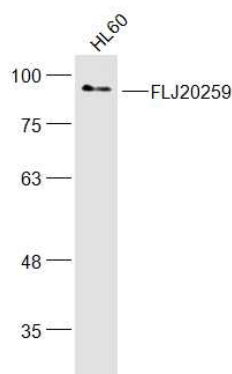
Protein Information

Name	QRICH1 {ECO:0000303 PubMed:33384352, ECO:0000312 HGNC:HGNC:24713}
Function	Transcriptional regulator that acts as a mediator of the integrated stress response (ISR) through transcriptional control of protein homeostasis under conditions of ER stress (PubMed:33384352, PubMed:40355839). Controls the outcome of the unfolded protein response (UPR) which is an ER-stress response pathway (PubMed:33384352). ER stress induces QRICH1 translation by a ribosome translation re- initiation mechanism in response to EIF2S1/eIF-2-alpha phosphorylation, and stress-induced QRICH1 regulates a transcriptional program associated with protein translation, protein secretion-mediated proteotoxicity and cell death during the terminal UPR (PubMed:33384352). May cooperate with ATF4 transcription factor signaling to regulate ER homeostasis which is critical for cell viability (PubMed:33384352). Up-regulates CASP3/caspase-3 activity in epithelial cells under ER stress. Central regulator of proteotoxicity associated with ER stress-mediated inflammatory diseases in the intestines and liver (PubMed:33384352). Core component of the zincore complex, a heterotetramer that acts as a molecular 'grip' to stabilize transcription factors at DNA-binding sites across the genome, thereby controlling gene expression (PubMed:40608935). The zincore complex binds specifically to zinc finger transcription factors, such as ZFP91, ZNF652, ZNF526 and PRDM15, and stabilizes them onto their cognate DNA motif (PubMed:40608935). Involved in chondrocyte hypertrophy, a process required for normal longitudinal bone growth (PubMed:30281152).
Cellular Location	Nucleus. Chromosome. Cytoplasm Cell membrane. Note=The zincore complex binds to a highly conserved promoter motif (5'-CTTTAAR-3')

Background

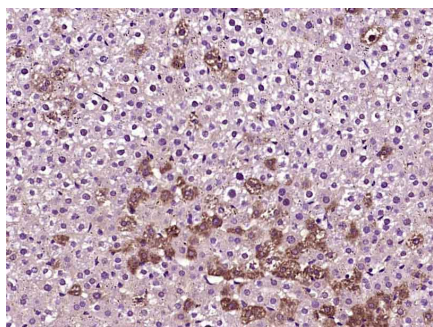
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Images



Sample:
HL60(Human) Cell Lysate at 30 ug
Primary: Anti-FLJ20259 (AP56124) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 87 kD
Observed band size: 87 kD

Paraformaldehyde-fixed, paraffin embedded (Rat liver);
Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody



incubation with (FLJ20259) Polyclonal Antibody, Unconjugated (AP56124) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.