

Anti-FLJ22028 Antibody (aa24-37)

Goat Anti Human Polyclonal Antibody

Catalog # ALS17879

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8WU10
Predicted	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	55793
Concentration (mg/ml)	0.5 mg/ml

Additional Information

Gene ID	79912
Alias Symbol	PYROXD1
Other Names	PYROXD1, FLJ22028
Target/Specificity	Human FLJ22028
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-FLJ22028 Antibody (aa24-37) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PYROXD1 (HGNC:26162)
Function	Flavoprotein whose role is to protect RTCB, the catalytic subunit of the tRNA ligase complex (tRNA-LC) involved in tRNA splicing and unfolded protein response, from oxidative inactivation (PubMed: 33930333). It directly binds and shields the catalytic center of RTCB, prior to guanylation, when it is inactive and its active site is vulnerable to oxidation under aerobic conditions. The interaction of PYROXD1 with RTCB is allosterically regulated by NAD(P)H binding and reduction of its FAD cofactor, while reoxidation of PYROXD1 thanks to its NADPH dehydrogenase activity triggers the timed release of RTCB, enabling its subsequent activation. Thereby, this protective mechanism may also function as a molecular timer, regulating RTCB activation through controlled release (PubMed: 40069351).
Cellular Location	Nucleus. Cytoplasm, cytosol. Cytoplasm, myofibril, sarcomere

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