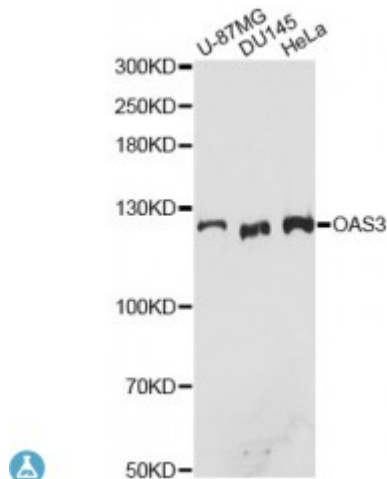


Anti-OAS3 Antibody



Description

This gene encodes an enzyme included in the 2', 5' oligoadenylate synthase family. This enzyme is induced by interferons and catalyzes the 2', 5' oligomers of adenosine in order to bind and activate RNase L. This enzyme family plays a significant role in the inhibition of cellular protein synthesis and viral infection resistance.

Model	STJ113646
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 320-620 of human OAS3 (NP_006178.2).
Gene ID	4940
Gene Symbol	OAS3
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Present at high level in placenta trophoblast
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	2'-5'-oligoadenylate synthase 3 (2-5' oligo(A synthase 3 2-5A synthase 3
Molecular Weight	121.17 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:8088 OMIM:603351 Reactome:R-HSA-877300
Alternative Names	2'-5'-oligoadenylate synthase 3 (2-5' oligo(A synthase 3 2-5A synthase 3
Function	Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response, In addition, it may also play a role in other cellular processes such as apoptosis, cell growth, differentiation and gene regulation, Synthesizes preferentially dimers of 2'-5'-oligoadenylates (2-5A) from ATP which then bind to the inactive monomeric form of ribonuclease L (RNase L) leading to its dimerization and subsequent activation, Activation of RNase L leads to degradation of cellular as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral replication, Can mediate the antiviral effect via the classical RNase L-dependent pathway or an alternative antiviral pathway independent of RNase L, Displays antiviral activity against Chikungunya virus (CHIKV), Dengue virus, Sindbis virus (SINV) and Semliki forest virus (SFV),
Cellular Localization	Cytoplasm, Nucleus

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