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OAS2 Antibody (aa357-371)

Goat Polyclonal Antibody

Catalog # ALS16310

Specification

OAS2 Antibody (aa357-371) - Product Information

Application	**WB, IHC**
Primary Accession	P29728
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**82kDa KDa**

OAS2 Antibody (aa357-371) - Additional Information

Gene ID 4939

Other Names
2'-5'-oligoadenylate synthase 2, (2-5')oligo(A) synthase 2, 2-5A synthase 2, 2.7.7.84, p69 OAS / p71 OAS, p69OAS / p71OAS, OAS2

Target/Specificity
Human OAS2. This antibody is expected to recognize reported isoform 1 (NP_058197.2) and isoform 2 (NP_002526.2).

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
OAS2 Antibody (aa357-371) is for research use only and not for use in diagnostic or therapeutic procedures.

OAS2 Antibody (aa357-371) - Protein Information

Name OAS2 (HGNC:8087)

Function
Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response (PubMed:10464285, PubMed:9880569). Activated by detection of double stranded RNA (dsRNA): polymerizes higher oligomers of 2'-5'- oligoadenylates (2-5A) from ATP which then bind to the inactive monomeric form of ribonuclease L (RNASEL) leading to its dimerization and subsequent activation (PubMed:10464285, PubMed:9880569, PubMed:11682059). Activation of RNASEL leads to degradation of cellular as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral replication

(PubMed:10464285, PubMed:9880569). Can mediate the antiviral effect via the classical RNASEL-dependent pathway or an alternative antiviral pathway independent of RNASEL (PubMed:21142819). In addition, it may also play a role in other cellular processes such as apoptosis, cell growth, differentiation and gene regulation (PubMed:21142819). May act as a negative regulator of lactation, stopping lactation in virally infected mammary gland lobules, thereby preventing transmission of viruses to neonates (By similarity). Non-infected lobules would not be affected, allowing efficient pup feeding during infection (By similarity).

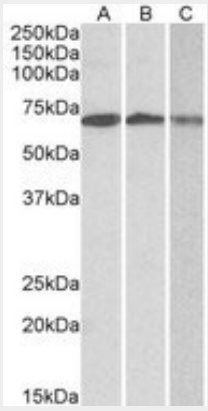
Cellular Location
Cytoplasm. Cytoplasm, perinuclear region

OAS2 Antibody (aa357-371) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OAS2 Antibody (aa357-371) - Images



OAS2 antibody (0.3 ug/ml) staining of Daudi (A), Jurkat (B) and K562 (C) lysates (35 ug protein...

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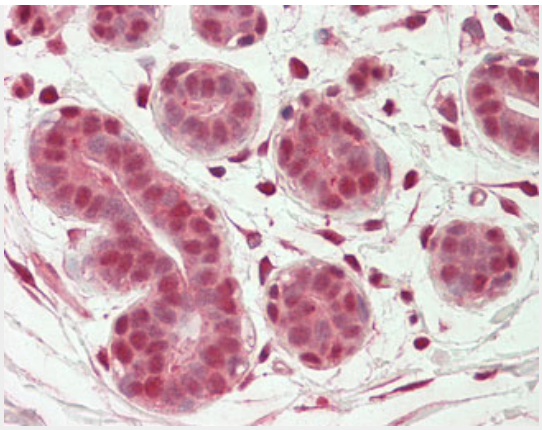

Anti-OAS2 antibody IHC staining of human breast.

OAS2 Antibody (aa357-371) - Background

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 higher oligomers 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.

OAS2 Antibody (aa357-371) - References

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