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Box 1 | Basic Info

Cat. No.	ABP-PAB-10919
Animal ID	RB1943/1944
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_002535
Amount	100 µg

Alternative Name(s): P69/P71, 2'-5'-oligoadenylate synthetase 2 (69-71 kD), OAS2

References:

1. Hovnanian A, Rebouillat D, Mattei MG, Levy ER, Marie I, Monaco AP, Hovanessian AG: The human 2',5'-oligoadenylate synthetase locus is composed of three distinct genes clustered on chromosome 12q24.2 encoding the 100-, 69-, and 40-kDa forms. *Genomics* 52(3): 267-277 (1998).
2. Marie I, Hovanessian AG: The 69-kDa 2-5A synthetase is composed of two homologous and adjacent functional domains. *J. Biol. Chem.* 267(14): 9933-9939 (1992).
3. Marie I, Svab J, Robert N, Galabru J, Hovanessian AG: Differential expression and distinct structure of 69- and 100-kDa forms of 2-5A synthetase in human cells treated with interferon. *J. Biol. Chem.* 265(30): 18601-18607 (1990).
4. Marie I, Galabru J, Svab J, Hovanessian AG: Preparation and characterization of polyclonal antibodies specific for the 69 and 100 k-dalton forms of human 2-5A synthetase. *Biochem. Biophys. Res. Commun.* 160(2): 580-587 (1989).
5. Hovanessian AG, Svab J, Marie I, Robert N, Chamaret S, Laurent AG: Characterization of 69- and 100-kDa forms of 2-5A-synthetase from interferon-treated human cells. *J. Biol. Chem.* 63(10): 4959-4959 (1988).
6. Hovanessian AG, Laurent AG, Chebath J, Galabru J, Robert N, Svab J: Identification of 69-kd and 100-kd forms of 2-5A synthetase in interferon-treated human cells by specific monoclonal antibodies. *EMBO J.* 6(5): 1273-1280 (1987).

OASL, 2'-5'-oligoadenylate synthetase-like polyclonal antibody

2'-5'-Oligoadenylate synthetases are interferon-induced enzymes that upon activation by double-stranded RNA polymerize ATP to 2'-5'-linked oligoadenylates. Three human OAS enzymes corresponding to proteins of 40/46, 69/71, and 100 kDa have been described. Based on the deduced amino acid sequences of the corresponding cDNAs, these OAS proteins share a homologous region of about 350 amino acid residues that represent the functional domain of OAS. The 40/46 kDa OAS proteins contain one single domain, whereas OAS2 belongs to the 69/71 kDa OAS proteins which contain two adjacent OAS domains. Some OAS proteins are 100-kDa proteins and contain three adjacent domains. OAS proteins play a significant role in the inhibition of cellular protein synthesis and viral infection resistance. Alternative splicing of the OAS2 gene produces two protein isoforms (p69 and p71) which share a common N-terminal sequence but diverge in the C-terminus. Only the p71 isoform is seen by this antibody.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

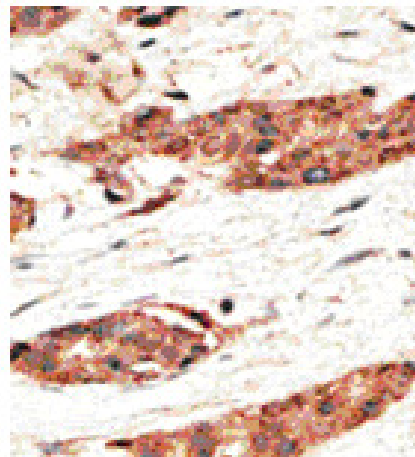
KLH conjugated synthetic peptide comprised of amino acids 713 - 727 [NNSKRNFWRSSGNRF] of the human 2'-5'-oligoadenylate synthetase 2 (OAS2) protein.

Application:

Tested by peptide-specific ELISA (1:1,000). IHC (1:50 ~1:100)

Storage:

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.



Human Breast Carcinoma