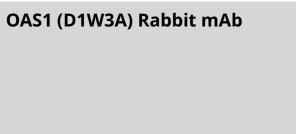
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Applications: W, W-S, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40, 44	Source/Isotype: Rabbit IgG	UniProt ID: #P00973	Entrez-Gene Id: 4938		
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:10 - 1:50 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	OAS1 (D1W3A) Rabbit mAb recognizes endogenous levels of total OAS1 protein. This antibody cross- reacts with an unidentified protein of 100 kDa in some cell lines.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp90 of human OAS1 protien.						
Background		2'-5'-oligoadenylate synthetase 1 (OAS1) is an antiviral protein induced by type 1 interferon that plays a key role in the cellular innate immune response (1). The OAS family of proteins includes OAS1, OAS2, OAS3, and OASL in humans (2). The OAS1 enzyme produces the second messenger 2'-5'-linked oligoadenylate in response to cytosolic dsRNA. These 2'-5'-linked oligoadenylates bind to the ribonuclease RNase L, which then degrades viral and cellular RNA (3). Research studies indicate that the OAS1 system inhibits protein synthesis and induces apoptosis in virally infected cells, which limits viral infection (4). Alternative splicing generates multiple isoforms of human OAS1, including p41 and the canonical p46 (5,6). Polymorphisms in the corresponding OAS1 gene have been examined for possible association with increased susceptibility to type 1 diabetes mellitus, multiple sclerosis, and infection by viral pathogens (7,8).						
Background Re	Background References 1. Schoggins, J.W. et al. (2011) Nature 472, 481-5. 2. Chebath, J. et al. (1987) Nature 330, 587-8. 3. Dong, B. and Silverman, R.H. (1997) J Biol Chem 272, 22236-42. 4. Castelli, J.C. et al. (1998) Cell Death Differ 5, 313-20. 5. Benech, P. et al. (1985) EMBOJ 4, 2249-56. 6. Saunders, M.E. et al. (1985) EMBOJ 4, 1761-8. 7. Cagliani, R. et al. (2012) Hum Genet 131, 87-97. 8. Tessier, M.C. et al. (2006) J Med Genet 43, 129-32.							
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human						
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