

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human OAS2.
Source	Monoclonal Mouse IgG _{2A} Clone # HLS56/3
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	2',5'-Oligoadenylate Synthetase-2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

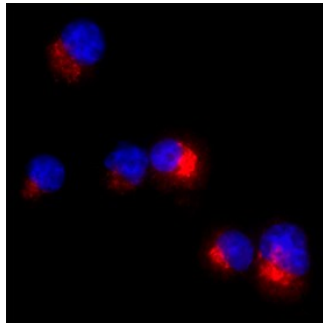
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	3-25 µg/mL	Immersion fixed U266 human myeloma cell line
Immunoprecipitation	Hovanessian, A.G. <i>et al.</i> (1987) EMBO J. 6:1273.	

DATA

Immunocytochemistry



OAS2 in U266 Human Cell Line. OAS2 was detected in immersion fixed U266 human myeloma cell line using Mouse Anti-Human OAS2 Monoclonal Antibody (Catalog # MAB1925) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

OAS2, also known as OAS (69 kDa), is one of three related proteins (along with OAS1 and OAS3) that catalyze the conversion of ATP into 2',5'-linked adenosine oligomers with the general formula pppA(2',5'A)_n where n ≥ 1 (2, 3). These proteins are induced by interferons, activated by double-stranded RNA, and are implicated in anti-viral immunity (1, 4, 5).

References:

1. Hovanessian, A.G. *et al.* (1987) EMBO J. **6**:1273.
2. Hovanessian, A.G. *et al.* (1977) Nature **268**:537.
3. Kerr, I.M. and R.E. Brown (1978) Proc. Natl. Acad. Sci. USA **75**:256.
4. Hovanessian, A.G. *et al.* (1988) J. Biol. Chem. **263**:4959.
5. Marie, I. *et al.* (1990) J. Interferon Res. **10**:571.
6. Marie, I. *et al.* (1990) J. Biol. Chem. **265**:18601.