

# Anti-Phosphatidylserine, clone 1H6, Alexa Fluor® 488 conjugate

Monoclonal Antibody

Cat. # 16-256

Lot # DAM1524042

pack size: 100 µg

Store at 2-8°C  
Do Not Freeze

FOR RESEARCH USE ONLY



## Certificate of Analysis

page 1 of 2

Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/Region	Host Species	Molecular Weight	Accession #
FC	Vrt	IgG	N/A	M	N/A	N/A

### Background

Phosphatidylserine, or PS, is a naturally occurring, phospholipid nutrient. PS is essential to the functioning of all the cells of the body, but is most concentrated in the brain. Its relative abundance in this organ reflects its proven involvement in an assortment of nerve cell functions, including nerve transmitter release and synaptic activity. Clinical studies have suggested that PS can support brain functions that tend to decline with age.

### Presentation

Purified mouse monoclonal IgG in buffer containing PBS containing 1% BSA, 0.05% Tween, 0.05% sodium azide. Liquid at 4°C.

### Concentration

0.5 mg/mL

### Specificity

Recognizes phosphatidylserine (PS) in cell membranes.

### Species Cross-reactivity

Vertebrates.

### Immunogen

Liposomes containing 70% phosphatidylserine and 30% phosphatidylglycerol.

### Method of Purification

Protein G Purified.

### Storage and Handling

Stable for 1 years at 4°C from date of receipt.

**Do Not Freeze.** Do not store the material diluted. For maximum recovery of product, centrifuge original vial prior to removing cap.

### Control

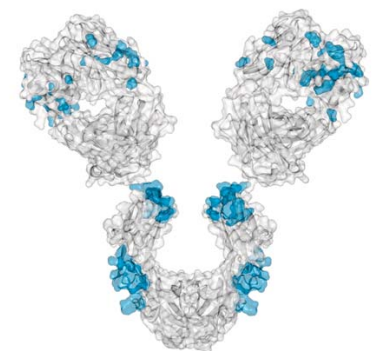
Staurosporine treated Jurkat cells.

**Included Negative Control:** Catalog # 16-240, Alexa Fluor® 488-conjugated Normal Mouse IgG.

### Research Applications

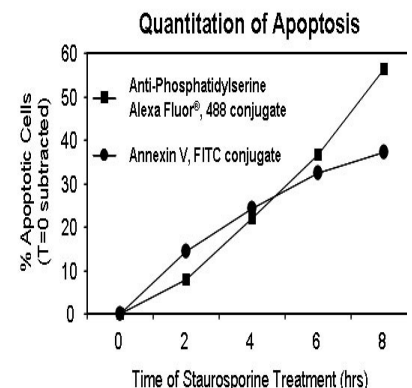
**Flow Cytometry:** 0.2 µg of this antibody detected Phosphatidylserine in fixed Jurkat cells (see page 2).

**Apoptosis Assay:** Time course for induction of apoptosis in Jurkat cells by staurosporine, measured using either an Anti-Phosphatidylserine, clone 1H6, Alexa Fluor® 488 conjugate or an Annexin V FITC conjugate.



### References

- Vance, J.E., and Steenbergen, R., *Prog. Lipid Res.* 44: 207-234.
- Kuypers, F.A., and de Jong, K., *Cell. Mol. Biol. (Noisy-le-grand)*. 50: 147-158.
- Williamson, P., and Schlegel, R.A., *J. Biol.* 3: 14.
- Nusbaum, P., *et al. Biochem. Soc. Trans.* 32: 477-479.
- Botto, M., *Arthritis Res. Ther.* 6: 147-150.



**APPLICATION LEGEND:** WB Western Blotting IP Immunoprecipitation IC Immunocytochemistry IF Immunofluorescence

IH Immunohistochemistry (Tissue) FC Flow Cytometry (FACS)

**SPECIES LEGEND:** H Human M Mouse R Rat Rb Rabbit WR Most Common Vertebrates Vrt Vertebrates

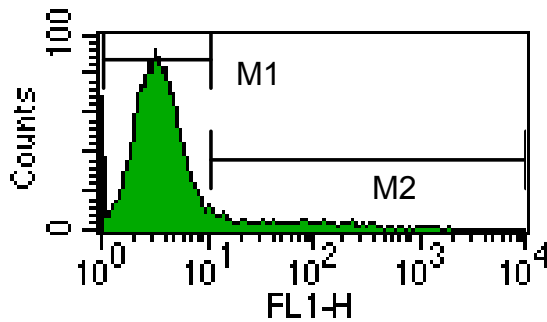
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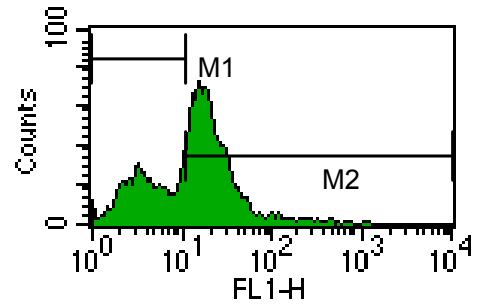
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Anti-Phosphatidylserine, clone 1H6,  
Alexa Fluor® 488



Marker	Events	% Gated	% Total	Geo Mean
All	9758	100.00	97.58	3.77
M1	9173	94.00	91.73	3.35
M2	482	4.94	4.82	43.61

Anti-Phosphatidylserine, clone 1H6,  
Alexa Fluor® 488



Marker	Events	% Gated	% Total	Geo Mean
All	9286	100.00	92.86	12.08
M1	3298	35.52	32.98	4.36
M2	5824	62.72	58.24	21.57

**PROTOCOL**

**Flow Cytometry**

1. Harvest suspension cell lines by centrifugation. Count cells. You will need between  $2 \times 10^5$  and  $5 \times 10^5$  for each antibody test. Aliquot cells into 15 mL conical test tubes.
2. Fix cells by adding 10% cell volume 37% methanol paraformaldehyde. Incubate 37°C for 10 min. Add 5 mL PBS to cells. Invert to mix. Pellet cells.
3. Repeat 5 mL PBS wash to remove remaining fixative.
4. Resuspend cells to  $4 \times 10^6$  cells/mL staining buffer (1% FBS in PBS). Aliquot 50  $\mu$ L of cells ( $2.5 \times 10^5$  cells) per well of a 96 well round or V-bottom TC plate. Add 3.5  $\mu$ L of labeled antibody (60  $\mu$ g/mL antibody stock concentration = 0.21  $\mu$ g antibody per test well). Incubate on ice for one hour.
5. Add 150  $\mu$ L of PBS to each well to wash out unbound antibody. Centrifuge plate at 2000 rpm, 5 min, 4°C to pellet cells and remove supernatant.
6. Resuspend cell pellets in 150  $\mu$ L FACS buffer (4% FBS, 0.05% sodium azide, PBS). Transfer cell suspension to 1.2 mL micro tube. Read on FACS machine using negative controls to set-up machine.
7. Number of cells per well and the amount of antibody used may need to be optimized for your individual application to give good, reproducible results. Note: Phosphatidylserine is membrane bound hence permeabilization of samples is not necessary.

**RELATED PRODUCTS (specific)**

cat #	description
05-719	■ Anti-Phosphatidylserine, clone 1H6
16-256	■ Anti-Phosphatidylserine, clone 1H6, Alexa Fluor® 488 conjugate

**RELATED PRODUCTS (non-specific)**

cat #	description
IPVH00010	■ Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 $\mu$ m
IPFL00010	■ Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 $\mu$ m
IPVH07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk
ISEQ00010	■ Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 $\mu$ m
ISEQ07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk
IPFL07810	■ Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk
WBKLS0100	■ Immobilon Western Chemilum HRP Substrate 100 mL
17-373	■ Spray & Glow™ ECL WB Detection System 1 ea
2060	■ Re-Blot Western Blot Recycling Kit
2500	■ Re-Blot Plus Western Blot Recycling Kit
B2080-175GM	■ Blot Quick Blocker Membrane Blocking Agent 175G

■ antibodies ■ Multiplex products ■ biotools ■ cell culture ■ enzymes ■ kits ■ proteins/peptides ■ siRNA/cDNA products

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