

## Datasheet: MCA2712F

<b>Description:</b>	MOUSE ANTI HUMAN ANNEXIN V:FITC
<b>Specificity:</b>	ANNEXIN V
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	VAA-33
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G		
<b>Buffer Solution</b>	TRIS buffered saline		
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.2 mg/ml		
<b>Immunogen</b>	Recombinant Annexin V.		

**External Database  
Links**

**UniProt:**

[P08758](#)    [Related reagents](#)

**Entrez Gene:**

[308](#) ANXA5    [Related reagents](#)

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**Synonyms**            ANX5, ENX2, PP4

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**RRID**                AB\_2258446

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**Specificity**            **Mouse anti Human Annexin V antibody, clone VAA-33** recognizes human Annexin V, a phospholipid binding protein which binds with high affinity and selectivity to phosphatidylserine (PS), in the presence of calcium.

The translocation of PS from the cytosolic leaflet to the outer leaflet of the plasma membrane, due to a loss in plasma membrane asymmetry during apoptosis, acts as an in vivo signal for the removal of the dying cell by phagocytosis. Detection of PS using Annexin V therefore provides a reliable diagnostic tool for the indication of early programmed cell death.

Annexin V has also been identified as an anticoagulant protein in the blood coagulation cascade, by acting as an inhibitor of prothrombin activation. The presence of antibodies to Annexin V, are associated with systemic lupus erythematosus (SLE), recurrent spontaneous abortions and systemic sclerosis (SSc).

Mouse anti Human Annexin V antibody, clone VAA-33 has been reported to work in Western blotting applications ([Wedher et al. 2009](#)).

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**Flow Cytometry**            Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**Further Reading**            1. Gerke, V. & Moss, S.E. (2002) Annexins: from structure to function. [Physiol Rev. 82 \(2\): 331-71.](#)

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**Storage**                Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**                Guaranteed until date of expiry. Please see product label.

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**Health And Safety  
Information**                Material Safety Datasheet documentation #10058 available at:  
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

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**Regulatory**                For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

### Recommended Useful Reagents

[ANNEXIN V:FITC ASSAY KIT \(ANNEX100F\)](#)

[ANNEXIN V:FITC ASSAY KIT \(ANNEX300F\)](#)

[ANNEXIN V:Biotin ASSAY KIT \(ANNEX100B\)](#)

[MOUSE ANTI HUMAN ANNEXIN V \(MCA2712\)](#)

[MOUSE ANTI HUMAN ANNEXIN V:Biotin \(MCA2712B\)](#)

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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