

TECHNICAL DATA SHEET

CyFlow™ Porcine acrosin Purified Clone ACR-2

REF CP171824

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	Porcine acrosin
Alternative Names	—
Clone	ACR-2
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Pig
Negative Species Reactivity	Human Cow Dog
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Acid extracts of boar spermatozoa were subjected to hydrophobic chromatography and the pooled fraction with reactivity to N- α benzoylarginine-4-nitroanilide was used for immunization

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Specificity

The mouse monoclonal antibody ACR-2 recognizes various forms of porcine acrosin (55, 53, 45 and 35 kDa), a typical serine proteinase with trypsin-like specificity. Acrosin is stored in the acrosome of undamaged spermatozoa.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot
- Immunocytochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

References

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- Moos J, Tesarik J, Leca G, Peknicova J: Mechanism of maturation and nature of carbohydrate chains of boar sperm acrosin. *FEBS Lett*. 1991 Dec 2; 294(1-2):27-30. < PMID: 1743288 >
- Moos J, Peknicova J, Tesarik J: Relationship between molecular conversions of acrosin and the progression of exocytosis in the calcium ionophore-induced acrosome reaction. *Biochim Biophys Acta*. 1993 Apr 16; 1176(3):199-207. < PMID: 8471622 >
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- Peknicova J, Capkova J, Geussova G, Ivanova M, Mollova M: Monoclonal antibodies to intra-acrosomal proteins inhibit gamete binding in vitro. Theriogenology. 2001 Jul 15; 56(2):211-23. < PMID: 11480614 >
- Ded L, Dostalova P, Dorosh A, Dvorakova-Hortova K, Peknicova J: Effect of estrogens on boar sperm capacitation in vitro. Reprod Biol Endocrinol. 2010 Jul 13; 8:87. < PMID: 20626847 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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