

**ARG57979**  
anti-Profilin 1 antibodyPackage: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Profilin 1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Profilin 1
Species	Human
Immunogen	Synthetic peptide derived from Human Profilin 1.
Conjugation	Un-conjugated
Alternate Names	Profilin I; Profilin-1; ALS18; Epididymis tissue protein Li 184a

### Application Instructions

Application table	Application	Dilution
	FACS	1:200
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	
Observed Size	~ 14 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note**

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol	PFN1
Gene Full Name	profilin 1
Background	This gene encodes a member of the profilin family of small actin-binding proteins. The encoded protein plays an important role in actin dynamics by regulating actin polymerization in response to extracellular signals. Deletion of this gene is associated with Miller-Dieker syndrome, and the encoded protein may also play a role in Huntington disease. Multiple pseudogenes of this gene are located on chromosome 1. [provided by RefSeq, Jul 2012]
Function	Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG. Inhibits androgen receptor (AR) and HTT aggregation and binding of G-actin is essential for its inhibition of AR. [UniProt]
Calculated Mw	15 kDa
PTM	Phosphorylation at Ser-138 reduces its affinity for G-actin and blocks its interaction with HTT, reducing its ability to inhibit androgen receptor (AR) and HTT aggregation. [UniProt]

## Images

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ARG57979 anti-Profilin 1 antibody WB image

Western blot: Jurkat cell lysate stained with ARG57979 anti-Profilin 1 antibody.