

## Product datasheet for **TA358783**

### JMY Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	<b>Expected reactivity:</b> Cow, Guinea Pig, Human, Mouse, Rat <b>Homology:</b> Cow: 86%; Guinea Pig: 93%; Human: 100%; Mouse: 100%; Rat: 100%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	82kDa
Gene Name:	junction mediating and regulatory protein, p53 cofactor
Database Link:	<a href="#">NP_689618</a> <a href="#">Entrez Gene 133746 Human</a> <a href="#">Q8N9B5</a>



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**Background:**

JMY acts both as a nuclear p53/TP53-cofactor and a cytoplasmic regulator of actin dynamics depending on conditions. In nucleus, JMY acts as a cofactor that increases p53/TP53 response via its interaction with p300/EP300. JMY increases p53/TP53-dependent transcription and apoptosis, suggesting an important role in p53/TP53 stress response such as DNA damage. In cytoplasm, JMY acts as a nucleation-promoting factor for both branched and unbranched actin filaments. JMY activates the Arp2/3 complex to induce branched actin filament networks. JMY also catalyzes actin polymerization in the absence of Arp2/3, creating unbranched filaments. JMY contributes to cell motility by controlling actin dynamics. JMY may promote the rapid formation of a branched actin network by first nucleating new mother filaments and then activating Arp2/3 to branch off these filaments. The p53/TP53-cofactor and actin activator activities are regulated via its subcellular location.

**Synonyms:**

FLJ37870; MGC163496; WHDC1L3

**Product images:**