

## OriGene Technologies Inc.

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### AP56025PU-N OriGene EU

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# Polyclonal Antibody to TKS4 (257-477) - Purified

Alternate names:	SH3 and PX domain-containing protein 2B, SH3PXD2B, Tyrosine kinase substrate with four SH3 domains
Catalog No.:	AP56025PU-N
Quantity:	0.1 mg
Concentration:	lot-specific
Background:	Tks4 (gene symbol SH3PXD2B) is a novel adaptor protein; also known as SH3 and PX domain-containing protein 2B, (Courtneidge, 2005). It is closely related to Tks5 (gene symbol SH3PXD2A) and like Tks5, appears to play a role in the formation and function of podosome/invadopodia based on studies of Src-transformed fibroblasts (Buschman, 2009). Additionally, Tks4 may be involved in the recruitment of MT1-MMP and ECM degradation.Tks4 is broadly expressed and localizes in the cytoplasm of the podosome.
Uniprot ID:	A2AAY5
NCBI:	<u>NP_796338.2</u>
GenelD:	<u>268396</u>
Host:	Rabbit
Immunogen:	Recombinant protein containing amino acids 257-477 of mouse Tks4.
Format:	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Protein A Chromatography <b>Buffer System:</b> 0.1M Tris-Glycine, pH 7.4, 150 mM NaCl with 0.05% Sodium Azide
Applications:	Immunoprecipitation. Western Blot. Immunocytochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody recognizes Mouse Tks4. Mouse and human (90% homology). Predicted to cross react with rat (96%), horse (88%), canine (87%) and bovine (87%) based on sequence homology. Reactivity with other species has not been tested.
Storage:	Store undiluted at 2-8°C. Shelf life: one year from despatch.

**For research and in vitro use only. Not for diagnostic or therapeutic work.** Material Safety Datasheets are available at www.acris-antibodies.com or on request. Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



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**Pictures:** 

#### Immunocytochemistry:

3T3-Src (Y527F) transformed cells (A) and 3T3 cells (B) were plated and fixed then stained with a 1:3000 dilution of Antimouse Tks4. Proteins were visualized using an anti-rabbit secondary conjugated to FITC (See Buschman, 2009 reference for further detail).



Western Blot Analysis: Representative lot data.

10  $\mu$ g of Anti-mouse Tks4 was used to immunoprecipitate from 500  $\mu$ g of NIH3T3 whole cell lysate The antibody was collected with Protein A beads and eluted with sample buffer. 50  $\mu$ g of NIH3T3 IP cell lysate was then resolved via SDS-PAGE, transferred to PVDF and probed with 3  $\mu$ g/mL of the same Anti-Tks4 polyclonal antibody. Proteins were visualized using an anti-rabbit secondary antibody conjugated to HRP that does not recognize denatured IgG. Detection using a chemiluminescence system.

Arrow indicates Tks4 (~ 130 kDa).



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