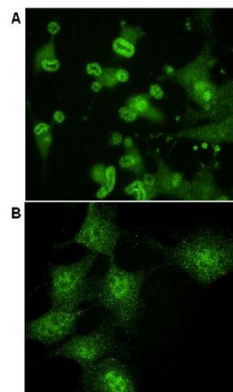


Polyclonal Antibody to TKS4 (257-477) - Purified

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:	A2AAAY5
NCBI:	NP_796338.2
GeneID:	268396
Host:	Rabbit
Immunogen:	Recombinant protein containing amino acids 257-477 of mouse Tks4.
Format:	State: Liquid purified Ig fraction Purification: Protein A Chromatography Buffer System: 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.

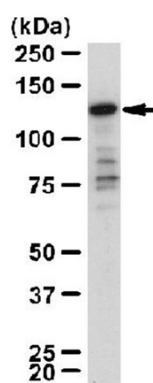
Pictures:

Immunocytochemistry:
3T3-Src (Y527F) transformed cells (A) and 3T3 cells (B) were plated and fixed then stained with a 1:3000 dilution of Anti-mouse 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 µg of Anti-mouse Tks4 was used to immunoprecipitate from 500 µg of NIH3T3 whole cell lysate. The antibody was collected with Protein A beads and eluted with sample buffer. 50 µg of NIH3T3 IP cell lysate was then resolved via SDS-PAGE, transferred to PVDF and probed with 3 µg/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).