

#16619 Store at -20C

TKS5 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	150	Rabbit	#Q5TCZ1	9644

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

TKS5 Antibody recognizes endogenous levels of total TKS5 protein. This antibody cross-reacts with a 300 kDa protein of unknown identity.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp910 of human TKS5 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

TKS5 (SH3PXD2A, FISH) is a scaffold protein expressed on invadosomes of both normal and transformed cell lines. Research studies suggest that TKS5 is functionally required for both the formation and invasive behavior of invadosomes (1, 2). TKS5 has an N-terminal PX domain that mediates invadosome initiation and localization of MMP-rich vesicles to the invadosome (3). TKS5 also has five SH3 domains, which recruit ADAM family proteinases to the invadosome to degrade extracellular matrix. These SH3 domains interact with adaptor proteins to facilitate F-actin polymerization during invadosome formation (4-6). Src tyrosine kinase has been shown to phosphorylate TKS5 at Tyr557 and Tyr619, which was shown to be necessary and sufficient for TKS5-mediated invadopodia formation and invasion (7). Elevated TKS5 expression is positively associated with invasive behavior of cancer cells, suggesting TKS5 may have prognostic potential in cancer (8, 9).

Background References

1. Paterson, E.K. and Courtneidge, S.A. (2017) *FEBS J* doi:10.1111/febs.14123.
2. Courtneidge, S.A. (2012) *Biochem Soc Trans* 40, 129-32.
3. Jacob, A. et al. (2016) *J Cell Sci* 129, 4341-4353.
4. Abram, C.L. et al. (2003) *J Biol Chem* 278, 16844-51.
5. Crimaldi, L. et al. (2009) *Exp Cell Res* 315, 2581-92.
6. Stylli, S.S. et al. (2009) *J Cell Sci* 122, 2727-40.
7. Burger, K.L. et al. (2014) *Prostate* 74, 134-48.
8. Stylli, S.S. et al. (2014) *Oncol Rep* 32, 989-1002.
9. Blouw, B. et al. (2015) *PLoS One* 10, e0121003.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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