

# Focal Adhesion Protein Antibody Sampler Kit

Cat# AK0159

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

## PRODUCT DESCRIPTION

Focal adhesions connect the cytoskeleton with the extracellular matrix (ECM), a complex structure of secreted macromolecules that surrounds mammalian organs and tissues. Integrins clustered on the extracellular side of focal adhesions relay signals from the ECM to intracellular protein complexes that signal the actin cytoskeleton to regulate tension for cell motility. Internal signals converge on focal adhesions to regulate integrin receptor affinity and avidity. Signaling through focal adhesions regulates cell adhesion, migration, proliferation, apoptosis, and gene expression, and impacts cellular processes such as development, wound healing, immune response, invasion, metastasis and angiogenesis. Focal adhesion kinase (FAK) is a widely expressed cytoplasmic protein tyrosine kinase involved in integrin-mediated signal transduction. Integrin clustering triggers FAK recruitment to the focal adhesion complex. Talin is a large, multidomain focal adhesion protein that interacts with the intracellular domains of integrins and other focal adhesion proteins. Talin is involved in the formation of focal adhesions and in linking focal adhesions to the actin cytoskeleton. Paxillin is a key component of integrin signaling that localizes primarily to focal adhesion sites in the extracellular matrix. Tyrosine phosphorylation of paxillin is required for integrin-mediated cytoskeletal reorganization. Paxillin is phosphorylated by FAK at Tyr118. Vinculin is a cytoskeletal protein involved in regulation of focal adhesions and embryonic development. Active vinculin translocates to focal adhesions where it may be involved in anchoring F-actin to the membrane and regulating cell migration. Vinculin binds a number of proteins, including talin,  $\alpha$ -actinin and paxillin. Tensin 2 localizes to focal adhesions of various tissues and exhibits highest expression in heart, kidney, and liver. Tensin 2 belongs to a family of cytoskeletal proteins that include Tensin 1-3 and Cten, which couple integrins to the actin cytoskeleton. Tensin family pr

## PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340517	FAK Polyclonal Antibody	20 $\mu$ L	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit
A340622	Paxillin Polyclonal Antibody	20 $\mu$ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340722	TLN1 Polyclonal Antibody	20 $\mu$ L	WB, ELISA	Human, Mouse, Rat	Rabbit

<b>A340736</b>	TNS2 Polyclonal Antibody	20μL	WB, ELISA	Human, Mouse	Rabbit
<b>A340701</b>	Vinculin Polyclonal Antibody	20μL	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit
<b>A1013s</b>	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat

## **PRODUCT USE LIMITATION**

These products are intended for research use only.