

# Phospho-Vinculin (Tyr822) Polyclonal Antibody

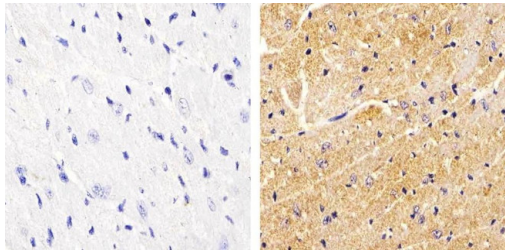
Product Details	
Size	100 µL
Species Reactivity	Chicken, Human, Mouse, Rat
Published Species	Tag, Rat, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human vinculin that contains tyrosine 822. The sequence is conserved in mouse, rat, and chicken.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533569

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-

Product Images For Phospho-Vinculin (Tyr822) Polyclonal Antibody

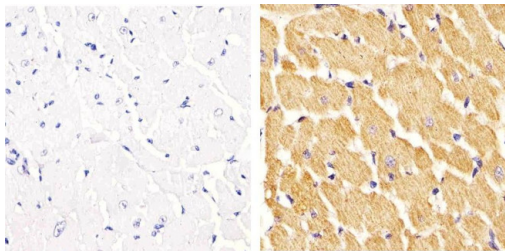
Phospho-Vinculin (Tyr822) Antibody (44-1080G) in IHC (P)

Immunohistochemistry analysis of Phospho-Vinculin (pTyr822) showing staining in the cytoplasm of paraffin-embedded mouse heart tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Phospho-Vinculin (pTyr822) polyclonal antibody (Product # 44-1080G) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



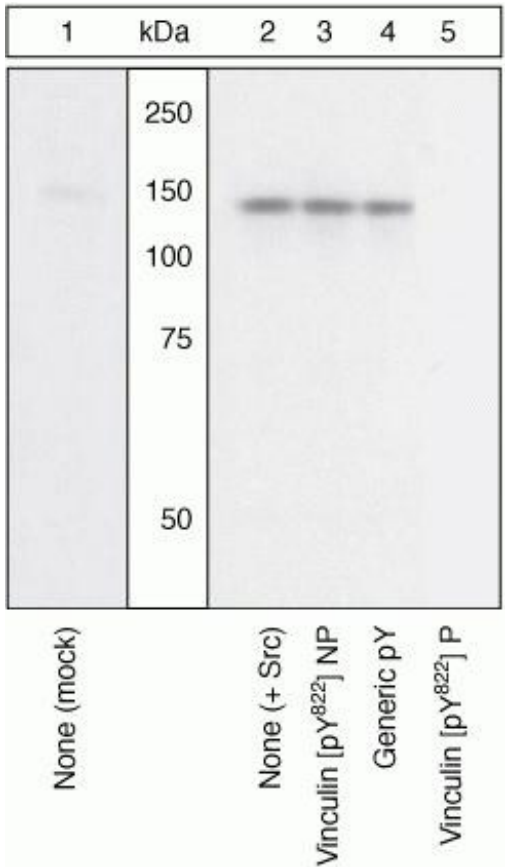
Phospho-Vinculin (Tyr822) Antibody (44-1080G) in IHC (P)

Immunohistochemistry analysis of Phospho-Vinculin (pTyr822) showing staining in the cytoplasm of paraffin-embedded rat heart tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Phospho-Vinculin (pTyr822) polyclonal antibody (Product # 44-1080G) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Phospho-Vinculin (Tyr822) Antibody (44-1080G) in WB

Peptide Competition. Lysates prepared from CEFs left untransfected (1) or transfected with Src (2-5) were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were blocked with a 5% BSA-TBST buffer for one hour at room temperature and incubated with vinculin (pY822) antibody for one hour at room temperature in 3% BSA-TBST buffer, following prior incubation with: no peptide (1, 2), the non-phosphopeptide corresponding to the immunogen (3), a generic phosphotyrosine-containing peptide (4), or, the phosphopeptide immunogen (5). After washing, membranes were incubated with goat F (ab')<sub>2</sub> anti-rabbit IgG HRP conjugate (Product # ALI4404) in 3% BSA-TBST buffer, and bands were detected using the Pierce SuperSignal™ method. The data show that only the peptide corresponding to vinculin (pY822) blocks the antibody signal, thereby demonstrating the specificity of the antibody. The data also show that vinculin is highly phosphorylated in the presence of activated Src.



Western Blot (2)

Lung	
Adhesion molecules affected by treatment of lung cancer cells with epidermal growth factor.	Year 2011
Authors: Fonseca FL,Azzalis LA,Feder D,Nogoceke E,Junqueira VB,Valenti VE,de Abreu LC	Species Human Rat Tag
Cellular microbiology	
The Helicobacter pylori CagA protein disrupts matrix adhesion of gastric epithelial cells by dephosphorylation of vinculin.	Year 2007
Authors: Moese S,Selbach M,Brinkmann V,Karlas A,Haimovich B,Backert S,Meyer TF	Species Human

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