
Product Name: KD-Validated PEF1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00926**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 30.4kDa

Antigen Information

Gene Name	PEF1 PEF1; Penta-EF-Hand Domain Containing 1; Peflin; PEF1A; PEF Protein With A Long N-
Alternative Names	Terminal Hydrophobic Domain; ABP32; Epididymis Secretory Sperm Binding Protein; Penta-EF Hand Domain-Containing Protein 1
Gene ID	553115.0
SwissProt ID	Q9UBV8
Immunogen	A synthesized peptide derived from human PEF1

Background

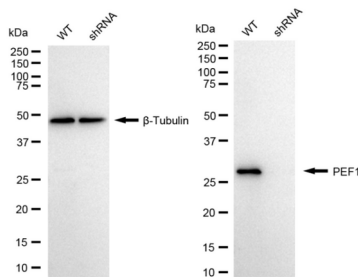
This gene encodes a calcium-binding protein belonging to the penta-EF-hand protein family. The encoded protein has been shown to form a heterodimer with the programmed cell death 6 gene product and may modulate its function in Ca(2+)

signaling. Alternative splicing results in multiple transcript variants and a pseudogene has been identified on chromosome 1. [provided by RefSeq, May 2010]

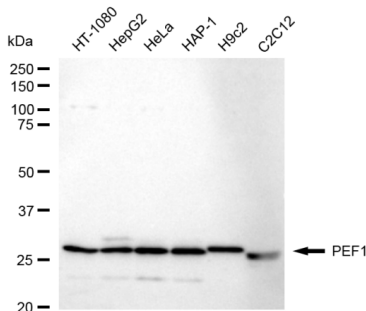
Research Area

Cell Biology, Signal Transduction

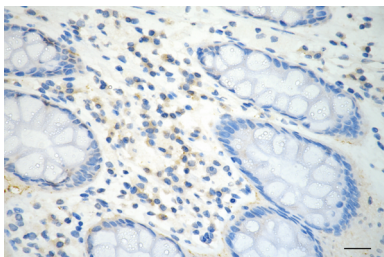
Image Data



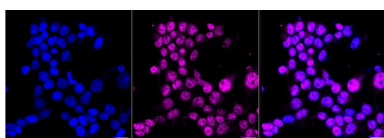
Western blotting analysis using PEF1 antibody (KVA00926). PEF1 expression in wild type (WT) and PEF1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with PEF1 antibody (KVA00926, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



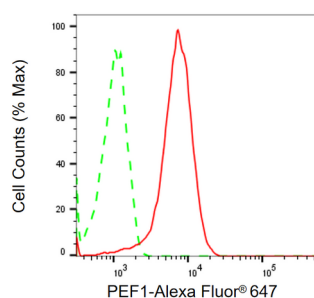
Western blotting analysis using PEF1 antibody (KVA00926). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PEF1 antibody (KVA00926, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using PEF1 antibody (KVA00926, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells with PEF1 antibody (KVA00926, 1:1,000). Nuclei were stained blue with DAPI; PEF1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of PEF1 expression in HeLa cells using PEF1 antibody (KVA00926, 1:2,000). Green, isotype control; red, PEF1.

