

## [KD Validated] Anti-VAV2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

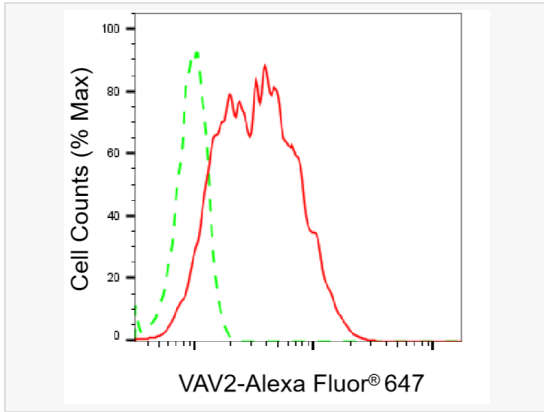
Catalog # R021406

### Product Information

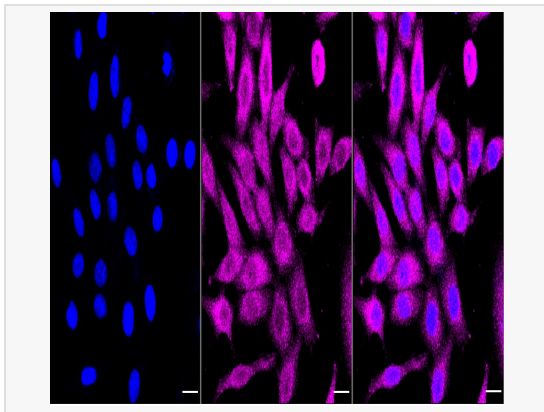
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Rat
Dilution	WB 1:4,000~1:20,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	14G78S30
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human VAV2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-VAV2 Rabbit mAb [14G78S30] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

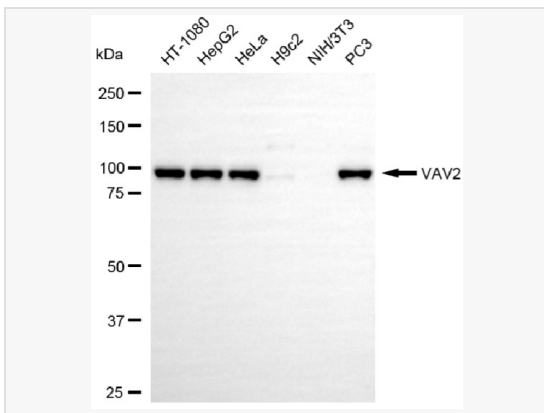
Synonyms	VAV2; Vav Guanine Nucleotide Exchange Factor 2; Guanine Nucleotide Exchange Factor VAV2; Vav 2 Oncogene; VAV-2; Vav 2 Guanine Nucleotide Exchange Factor.
Calculated MW	Calculated MW: 101 kDa; Observed MW: 100 kDa
Uniprot ID	P52735
Gene ID	7410
Background	Vav proteins belong to the Dbl family of guanine nucleotide exchange factors (GEFs) for Rho/Rac small GTPases. The three identified mammalian Vav proteins (Vav1, Vav2 and Vav3) differ in their expression. Vav1 is expressed only in hematopoietic cells and is involved in the formation of the immune synapse. Vav2 and Vav3 are more ubiquitously expressed.



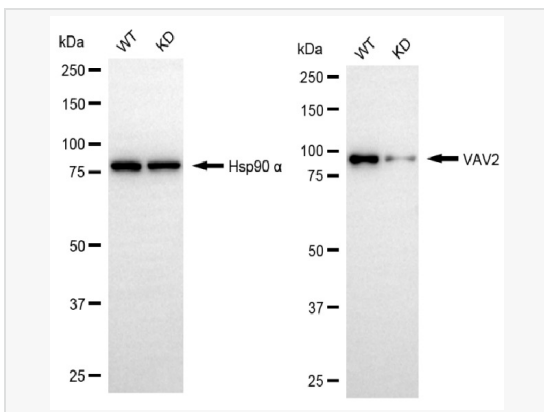
Flow cytometric analysis of VAV2 expression in HepG2 cells using VAV2 antibody (R021406, 1:2,000). Green, isotype control; red, VAV2.



Immunocytochemical staining of HepG2 cells with VAV2 antibody (R021406, 1:1,000). Nuclei were stained blue with DAPI; VAV2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Western blotting analysis using VAV2 antibody (R021406). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with VAV2 antibody (R021406, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using VAV2 antibody (R021406). VAV2 expression in wild-type (WT) and VAV2 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with VAV2 antibody (R021406, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.