

## Product datasheet for **TA336623**

### Vimentin (VIM) Chicken Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1:10000-1:20000, IF: 1:5000, IHC: 1:150, IHC-P: 1:150
Reactivity:	Human, Mouse, Rat
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Recombinant human Vimentin purified from E. coli. [Swiss-Prot# P08670]
Formulation:	PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ammonium sulfate precipitation
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	50 kDa
Gene Name:	vimentin
Database Link:	<a href="#">NP_003371</a> <a href="#">Entrez Gene 22352 Mouse</a> <a href="#">Entrez Gene 81818 Rat</a> <a href="#">Entrez Gene 7431 Human</a> <a href="#">P08670</a>



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**Background:**

Vimentin (VIM) is a widely expressed/highly conserved member of type III intermediate filaments (IF) family proteins found in various non-epithelial cells, especially in mesenchymal cells. It exists as homopolymer assembled from elementary dimers and interacts with HCV core protein, LGSN, SYNM, PLEC, SLC6A4, STK33, LARP6 and RAB8B, and its interaction with LARP6 plays a key role in the stabilization of type I collagen mRNAs, CO1A1/CO1A2. VIM's dynamic structural changes and spatial re-organization in response to extracellular stimuli facilitate coordination of various signal transduction pathways. Filament disassembly during cell division is promoted by VIM phosphorylation at Ser-55 as well as by nestin. VIM is phosphorylated by STK33, CDK5 and PKN1; and PKN1 mediated phosphorylation inhibits filaments formation, whereas, CDK5 executes its phosphorylation at Ser-56 during neutrophil secretion in cytoplasm. VIM expression is predominant during embryonic development, while in adults, its expression is limited to connective tissue mesenchymal cells, CNS and muscles. VIM has emerged as canonical marker of EMT (epithelial to mesenchymal transition- a process that renders the epithelial cells to dramatically alter their shape and acquire increased motility) which is characterized by the expression of VIM IFs in epithelial cells that normally express only keratin IFs and enhanced VIM expression has been reported in various cancers where it plays as a driving factor for metastasis.

**Synonyms:**

CTRCT30; HEL113

**Note:**

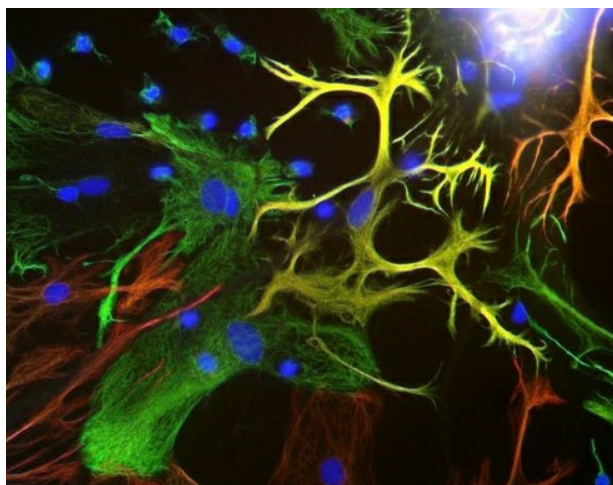
This Vimentin antibody is useful for Immunohistochemistry paraffin embedded sections, Western blot and Immunocytochemistry/Immunofluorescence.

**Protein Families:**

ES Cell Differentiation/IPS

**Product images:**

Western Blot: Vimentin Antibody TA336623 - Western blot of crude extract of human embryonic kidney Hek293 cells stained with TA336623, showing a single strong clean band at approx. 50kDa.



Immunocytochemistry/Immunofluorescence:  
Vimentin Antibody TA336623 - View of mixed  
neuron/glia cultures stained with TA336623  
(green) and rabbit antibody to GFAP antibody  
NB300-141 (red). Vimentin is expressed alone in  
fibroblastic and endothelial cell