

Recombinant

DGRmAb®

Vimentin (DGR12122) Rabbit mAb

db11589

Package : 10µL 20µL 50µL 100µL

Product Name : Vimentin (DGR12122) Rabbit mAb

Cat.No.: db11589

Synonyms : VIM

Application : WB, IHC, ICC/IF, FC

Reactivity : Human, Mouse, Rat

Host species : Rabbit

Background

This gene encodes a type III intermediate filament protein. Intermediate filaments, along with microtubules and actin microfilaments, make up the cytoskeleton. The encoded protein is responsible for maintaining cell shape and integrity of the cytoplasm, and stabilizing cytoskeletal interactions. This protein is involved in neuritogenesis and cholesterol transport and functions as an organizer of a number of other critical proteins involved in cell attachment, migration, and signaling. Bacterial and viral pathogens have been shown to attach to this protein on the host cell surface. Mutations in this gene are associated with congenital cataracts in human patients. [provided by RefSeq, Aug 2017]

Immunogen

A synthetic peptide of human Vimentin

Gene ID

7431

Swiss Prot

P08670

Synonyms

VIM

Reactivity

Human, Mouse, Rat

Application

WB, IHC, ICC/IF, FC

Recommended dilution

WB: 1:1000
 IHC: 1:200-1:500
 ICC/IF: 1:100
 FC: 1:100

Calculated MW

54 kDa

Observed MW

54 kDa

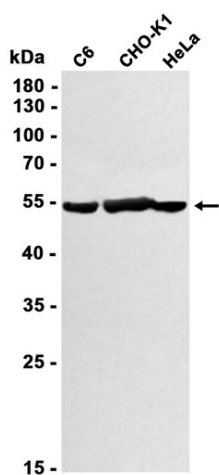
Host species

Rabbit

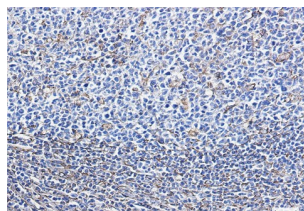
Clonality

Monoclonal

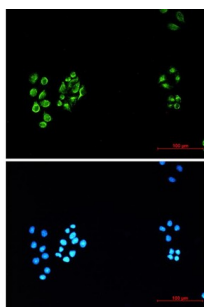
Clonality No.	DGR12122
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



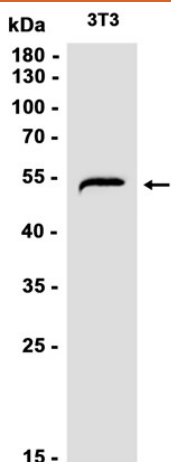
Western blot analysis of extracts from C6, CHO-K1, HeLa cells using db11589 at 1:1000.



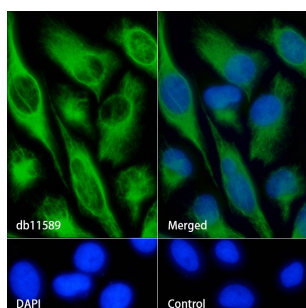
Immunohistochemical analysis of paraffin-embedded human tonsil using db11589 antibody.



Immunofluorescent analysis of HeLa cells using db11589 antibody (green), and DAPI (blue).



Western blot analysis of extracts from 3T3 cells using db11589 at 1:1000.



Immunofluorescence analysis of HeLa cells labelling Vimentin with db11589.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db11589 (1:100) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.