

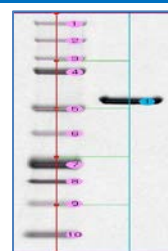
DATA SHEET

Product Information

Product Name	: Recombinant Human VIMENTIN (rhVIMENTIN)
Synonyms	: <i>VIM</i>
Description	: Vimentin is a type III intermediate filament (IF) protein that is expressed in mesenchymal cells. Vimentin is the major cytoskeletal component of mesenchymal cells. Because of this, vimentin is often used as a marker of mesenchymally-derived cells or cells undergoing an epithelial-to-mesenchymal transition (EMT) during both normal development and metastatic progression. Vimentin plays a significant role in supporting and anchoring the position of the organelles in the cytosol. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally. The dynamic nature of vimentin is important when offering flexibility to the cell. In essence, vimentin is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It has been used as a sarcoma tumor marker to identify mesenchyme (Ref. Wikipedia)
NCBI Accession No.	: NM_003380.3
Amino acid sequence	: MSTRSVSSSSYRRMFGGPGTASRPSSRSYVTTSTRTYSLGSALRPSTSRSLYASSP GGVYATRSSAVRLRSVPGVRLQLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRF ANYIDKVRFLQONKILLAELEQLKGQKSRGLDLYEEMRELRRQVDQLTNDKARV EVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFQDVDNASLARLDLERKVESLQ EETAFLLKHLHEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRRQYQYVAAKNLQ EAEWYKSKFADLSEAANRNNDALRQAKQESTYRRQVQSLTCEVDALKGTNESLER QMRMEENFAVEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIAT YRKLLEGEESRISLPLPNFSSLNLRRETNLDSLPLVDTHSKRLLIKTVETRDGQVIN ETSQHDDLEHHHHHH
Molecular Mass	: 54.80 kDa
Protein Tags	: Polyhistidine
Source	: <i>E. coli</i> .
Cat. No.	: A-RA02
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 95 % by SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: Determined by Bradford method
Endotoxin	: Less than 1.0 EU/ μ g as determined by the LAL method
Formulation	: 40mM Tris-acetate, 1mM EDTA, 5% Glycerol (pH 7.5~8.5)
Stability	: Stable for up to 12 months at -70 °C.
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



15% SDS-PAGE(3ug)

Manufacturer : **JW CreaGene Inc.**
 FL2, Jungang induspia V, 138-6, Sangdaewon-dong, Jungwon-gu, Seongnam-si,
 Gyeonggi-do, South Korea (462-120)
 Tel: 82-31-737-3310, Fax: 82-31-737-3301