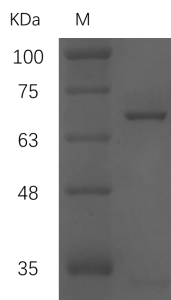


Specification

Product name:	Recombinant human MCV antigen
Source:	<i>E.coli</i> derived
Accession #:	P08670
SDS-PAGE:	54.7 kDa, reducing conditions
Construction:	MCV with 6His tag at N-terminal
Predicted Molecular Mass:	65kDa
Activity:	Immunoreactivity was confirmed by reacting with monoclonal antibodies specific to human MCV.
Application:	ELISA, immunology, others unspecified.
Form:	Liquid
Formulation:	PBS, pH 7.4.
Stability & Storage:	Stable at -80°C
Shipping condition:	The product is shipped on ice pack. Upon receiving, store it immediately at the recommended temperature.
Conc. Determined:	BCA
Purity:	>90%



Greater than 90% as determined by reducing SDS-PAGE. (QC verified).

BACKGROUND

Vimentin is a 54 kDa class III intermediate filament (IF) protein that belongs to the intermediate filament family. It is the predominant IF in cells of mesenchymal origin such as vascular endothelium and blood cells (1-2). The human Vimentin cDNA encodes a 466 amino acid (aa) protein that contains head and tail regions with multiple regulatory Ser/Thr phosphorylation sites, and a central rod domain with three coiled-coil regions separated by linkers (1, 2). Vimentin with mutations when citrullinated by PAD (peptidyl arginine deaminase) could be used as an antigen to detect autoimmune antibodies in Rheumatoid Arthritis diagnosis (3).

References:

1. Omary, M.B. et al. (2006) Trends Biochem. Sci. 31:383.
2. Ivaska, J. et al. (2007) Exp. Cell Res. 313:2050.
3. Bang, H. et al. (2007) Arthritis & Rheumatism 56:2503