

# Mouse Vimentin (VIM) ELISA Kit

Catalog No: #EK5863



Package Size: #EK5863-1 48T #EK5863-2 96T

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## Description

Product Name	Mouse Vimentin (VIM) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	RP11-124N14.1; FLJ36605;
Accession No.	P20152
Uniprot	P20152
GeneID	22352;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.129 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate VIM in samples. An antibody specific for VIM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyVIM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VIM is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VIM bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Vimentin is a type III intermediate filament (IF) protein that is expressed in mesenchymal cells. IF proteins are found in all metazoan cells as well as bacteria. IF, along with tubulin-based microtubules and actin-based microfilaments, comprise the cytoskeleton. All IF proteins are expressed in a highly developmentally-regulated fashion; 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. A vimentin monomer, like all other intermediate filaments, has a central  $\alpha$ -helical domain, capped on each end by non-helical amino (head) and carboxyl (tail) domains.

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Note: This product is for in vitro research use only