

## Product datasheet

### anti-Vimentin guinea pig polyclonal, serum

#### Short overview

<b>Cat. No.</b>	GP53
<b>Quantity</b>	100 µl

#### Product description

<b>Host</b>	Guinea pig
<b>Antibody Type</b>	Polyclonal
<b>Immunogen</b>	Vimentin purified from calf lens
<b>Formulation</b>	Contains 0.09% sodium azide and 0.5% BSA
<b>UniprotID</b>	P48616 (Bovine), P08670 (Human), P20152 (Mouse)
<b>Synonym</b>	Vimentin, VIM
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Stabilized antiserum
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, WB
<b>Reactivity</b>	Bovine, Human, Mouse

#### Applications

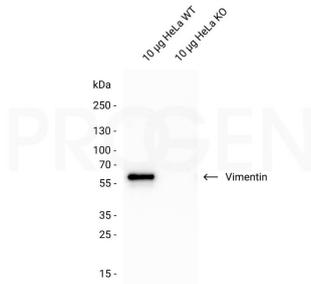
<b>Immunocytochemistry (ICC)</b>	Assay dependent
<b>Immunohistochemistry (IHC) - frozen</b>	1:100
<b>Immunohistochemistry (IHC) - paraffin</b>	1:50 (microwave treatment recommended)
<b>Western Blot (WB)</b>	1:500-1:3,000

#### Background

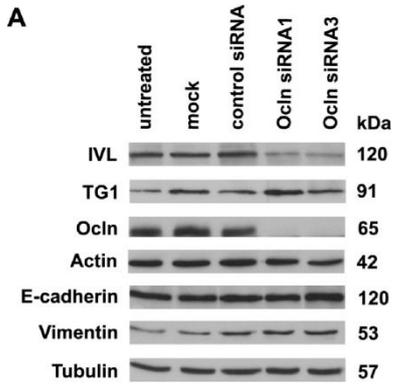
Specific detection of vimentin (Mr 57,000 polypeptide).

Tumors specifically detected: Sarcoma (including myosarcoma), lymphoma, melanoma.

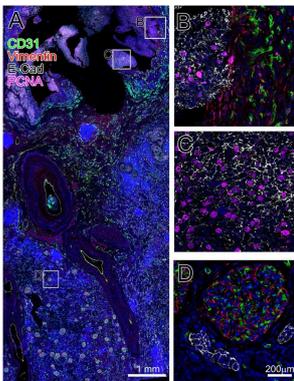
#### Product images



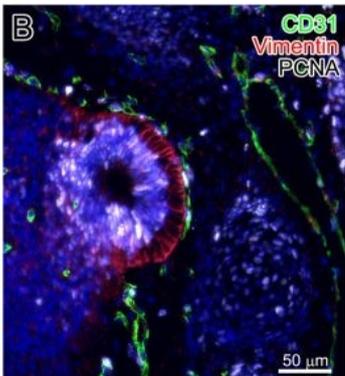
Western blot analysis of HeLa lysate with anti-Vimentin antibody. Western blot analysis was performed on 10 µg wild type (WT) and 10 µg Vimentin knockout (KO) HeLa lysate. The PVDF membrane was blocked with 5% milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-Vimentin guinea pig polyclonal (Cat. No. GP53) was diluted in blocking buffer (1:1,000) and incubated for 1 h at RT. The secondary antibody goat anti-guinea pig HRP was also diluted in blocking buffer (antibody concentration 0.2 µg/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using Pierce™ ECL Western Blotting Substrate.



[Rachow, S., Zorn-Kruppa, M., et al. Occludin is involved in adhesion, apoptosis, differentiation and Ca<sup>2+</sup>-homeostasis of human keratinocytes: implications for tumorigenesis. PLoS One. 2013-02-08.](#) Species/Reactant: Homo sapiens (Human) Applications: Western Blotting Image collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.



[Yarilin, D., Xu, K., et al. Machine-based method for multiplex in situ molecular characterization of tissues by immunofluorescence detection. Sci Rep. 2015-03-31.](#) Species/Reactant: Homo sapiens (Human) Applications: Immunohistochemistry-immunofluorescence Image collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.



[Yarilin, D., Xu, K., et al. Machine-based method for multiplex in situ molecular characterization of tissues by immunofluorescence detection. Sci Rep. 2015-03-31.](#) Species/Reactant: Mus musculus (House mouse) Applications: Immunohistochemistry-immunofluorescence Image collected and



## References

Publication	Species	Application
<a href="#">Ibrahim, D. et al. An in vitro study of scarring formation mediated by human Tenon fibroblasts: Effect of Y-27632, a Rho kinase inhibitor. Cell.Biochem.Funct. 37, 113-124 (2019)</a>	human	ICC-IF
<a href="#">Keskin, I. et al. The molecular pathogenesis of superoxide dismutase 1-linked ALS is promoted by low oxygen tension. Acta.Neuropathol. , (2019)</a>	human	ICC-IF
<a href="#">Nehrenheim, L. et al. Native aortic valve derived extracellular matrix hydrogel for three dimensional culture analyses with improved biomimetic properties. Biomed. Mater. 14, 35014 (2019).</a>	sheep	ICC-IF
<a href="#">Shawki, H. et al. MAFB is dispensable for the fetal testis morphogenesis and the maintenance of spermatogenesis in adult mice. PLoS.One. 13, e0190800 (2018).</a>	mouse	IHC-IF (paraffin), ICC
<a href="#">Hakuno, D. et al. Hepatokine ?1-Microglobulin Signaling Exacerbates Inflammation and Disturbs Fibrotic Repair in Mouse Myocardial Infarction. Sci.Rep. 8, 16749 (2018).</a>	mouse	IHC-IF (paraffin)