

## Product datasheet

### anti-p62/ SQSTM1 (C-terminus) guinea pig polyclonal + anti-guinea pig IgG HRP set

#### Short overview

<b>Cat. No.</b>	71001
<b>Quantity</b>	100 µl anti-p62 + 100 µg anti-guinea pig IgG HRP

#### Product description

<b>Host</b>	Goat, Guinea pig
<b>Antibody Type</b>	Polyclonal
<b>Immunogen</b>	See individual antibody datasheet for information about specific immunogens
<b>Formulation</b>	GP62-C antibody: contains 0.09% sodium azide; anti-guinea pig IgG HRP antibody: lyophilized, reconstitute in 500 µl dist. water (final solution contains 10 mg/ml BSA in PBS buffer, pH 7.4)
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Storage</b>	Lyophilized at 2-8°C; reconstituted at -20°C (avoid freeze/thaw cycles)
<b>Intended use</b>	Research use only
<b>Application</b>	IHC, WB
<b>Reactivity</b>	See individual antibody datasheet

#### Applications

<b>Immunohistochemistry (IHC) - frozen</b>	anti-p62: 1:100-1:600
<b>Immunohistochemistry (IHC) - paraffin</b>	anti-p62: 1:100-1:600 (microwave treatment recommended)
<b>Western Blot (WB)</b>	anti-p62: 1:1,000-1:3,000; anti-guinea pig HRP: 1:2,500-1:100,000

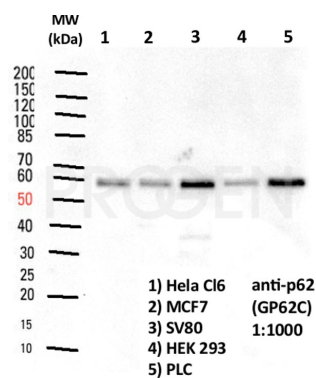
#### Background

**anti-p62 antibody:** The anti-p62 antibody is useful for research in ubiquitin-associated degradation and autophagy and for detection of neurofibrillary tangles in the brain of Alzheimer disease patients, in Parkinson diseases and various chronic liver diseases. Human 62 kD (p62) protein, is present in intracytoplasmic inclusions (e.g. hyaline bodies) of hepatocellular carcinoma. p62 protein (also described as ubiquitin-binding protein; sequestosome 1; SQSTM1) has been found in many tissues and cells, including lymphoid cells, serving probably a common cellular signal transduction mechanism (e.g. ubiquitin-associated degradation and autophagy). The antiserum stains also neurofibrillary tangles in the brain of patients suffering from Alzheimer's disease.

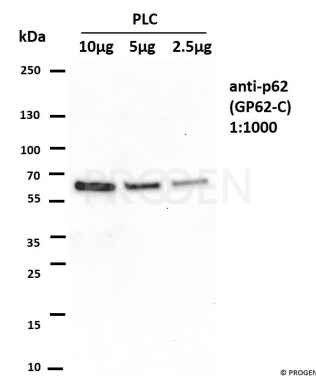
**anti-guinea pig IgG goat polyclonal, HRP conjugate:** Whole Guinea Pig IgG secondary antibodies are isolated from antisera by immunoaffinity chromatography. The antibody is conjugated to Horseradish peroxidase (HRP) and is commonly used for WB, IHC and ELISA. Based on immunoelectrophoresis and/or ELISA, the antibody reacts with whole molecule guinea pig IgG. It also reacts with the light chains of other guinea pig immunoglobulins. No antibody was detected against non-immunoglobulin serum proteins. The antibody may cross-react with immunoglobulins from other species.

Set content: Cat. No. GP62-C, anti-p62 / SQSTM1 (C-terminus) guinea pig polyclonal, serumCat. No. 90001, anti-guinea pig IgG goat polyclonal, HRP conjugate

Product images



WB with anti-p62 antibody (Cat. No. GP62-C, 1:1000) on different human cell lines; secondary antibody: anti-guinea pig HRP (Cat. No. 90001, 1:5,000)



WB with anti-p62 antibody (Cat. No. GP62-C, 1:1000), PLC whole cell lysate (2.5 - 10 µg) western blot control (Cat. No. 64006), secondary antibody: anti-guinea pig HRP (Cat. No. 90001, 1:5,000)

## References

Publication	Species	Application
<a href="#">Kawakami, I. et al. Progression of phosphorylated Î±-synuclein in Macaca fuscata. Brain Pathol. 31, e12952(2021).</a>	macaque	IHC (paraffin)
<a href="#">Hegdekar, N., Lipinski, M. M. &amp; Sarkar, C. N-Acetyl-L-leucine improves functional recovery and attenuates cortical cell death and neuroinflammation after traumatic brain injury in mice. Sci. Rep. 11, (2021).</a>	mouse	IHC-IF
<a href="#">Schl�termann, D. et al. FIP200 controls the TBK1 activation threshold at SQSTM1/p62-positive condensates. Sci. Rep. 11, (2021).</a>	mouse	WB
<a href="#">Deitersen, J. et al. High-throughput screening for natural compound-based autophagy modulators reveals novel chemotherapeutic mode of action for arzanol. Cell Death Dis. 12, (2021).</a>	human	WB
<a href="#">Nozaki, M. et al. SQSTM1L341V variant that is linked to sporadic ALS exhibits impaired association with MAP1LC3 in cultured cells. eNeurologicalSci. 22, 100301(2021).</a>	mouse	ICC/IF