

For Research Use Only

# CoraLite®594-conjugated P62/SQSTM1 Monoclonal antibody



Catalog Number: ~~CL594-66184~~

Featured Product

## Basic Information

<b>Catalog Number:</b> CL594-66184	<b>GenBank Accession Number:</b> BC017222	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100UL , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8878	<b>CloneNo.:</b> 1H5C1
<b>Source:</b> Mouse	<b>Full Name:</b> sequestosome 1	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 48 kDa	<b>Excitation/Emission maxima wavelengths:</b> 593 nm/614 nm
<b>Immunogen Catalog Number:</b> AG13131	<b>Observed MW:</b> 62 kDa	

## Applications

<b>Tested Applications:</b> IF, ELISA	<b>Positive Controls:</b> IF : HepG2 cells,
<b>Species Specificity:</b> human	

## Background Information

Sequestosome 1 (SQSTM1/p62) is a multifunctional adaptor protein implicated in selective autophagy, cell signaling pathways, and tumorigenesis. p62 has been implicated in shuttling ubiquitinated and sometimes aggregated proteins for autophagic degradation. As a autophagy-specific substrate, p62 is degraded during the autophagic process, which makes intracellular level of p62 as a marker for autophagy flux. p62 is at the cross-roads of several signaling pathways including Ras/ Raf/ MAPK and NFκB and plays important role in cancer. p62 is a component of inclusion bodies/ protein aggregates found in human diseases, including Huntington's disease, Alzheimer's disease, Parkinson's disease in the brain, and nephropathic cystinosis in kidney (PMID: 22074114, 22860231, 22714671). The molecular weight of p62 is predicted as 48/ 38 kDa, while western blot analyses using this antibody demonstrate the major band around 60-62 kDa in various tissues.

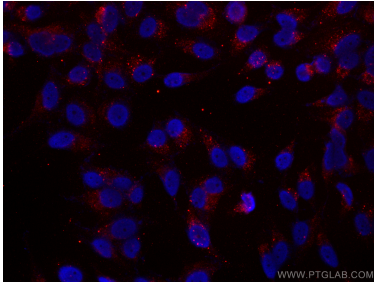
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated HepG2 cells using CL594-66184 (P62/SQSTM1 antibody) at dilution of 1:100.