## p62 and phospho-p62 ELISA Kit

# CycLex ${ }^{\text {s }}$ Total p62 ELISA Kit CycLex ${ }^{\text {B }}$ Phospho-p62 Ser349 ELISA Kit CycLex ${ }^{\text {s }}$ Phospho-p62 Ser403 ELISA Kit 

## The market's first ELISA kit for phosphorylated p62!

## Features

## - Comes with lysis buffer. Easy to prepare cell lysate! <br> - Useful for drug screening! <br> - Human and mouse cell lysate can be used.

## What is Selective autophagy?

Autophagy was initially thought to be a non-selective degradation mechanism, because the entire vesicle contents were digested. However, recent findings have revealed the selective degradation of mitochondria and other specific organelles, bacteria, and aggregates of proteins with attached ubiquitin chains (polyubiquitinated proteins).
This mechanism is called "selective autophagy."

## p62/SQSTM1

Domain structure of p62/SQSTM1
"Adaptor proteins" are necessary to link autophagosomes to proteins destined for selective degradation. One of these adaptor proteins is p62/SQSTM1. p62 is a scaffolding protein that interacts with various signaling molecules. p62 contains an LC3-interacting region and is believed to be a substrate for selective autophagy. In addition, p62 contains a domain that binds ubiquitin chains, and mediates the recruitment of poly ubiquitinated protein aggregates and depolarized mitochondria to the autophagic machinery.
There is increasing interest about impairment of autophagic degradation in neurodegenerative diseases (such as Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis), alcoholic hepatitis, hepatic steatosis, and liver cancer.


■ 62-Keap1-Nrf2 pathway


This illustration was made under the supervision of Dr. Masaaki Komatsu and Dr. Yoshinobu Ichimura (Niigata University).

## Phospho-p62

p62 has several phosphorylation sites. Two biophylaxis systems described below are effectively activated by the continuous phosphorylation on these sites.


■ Example data of HeLa and MEF cells.
HeLa cells



MEF cells



## Related product list

<Kits>

Code No. Product
CycLex Total p62 ELISA Kit
CY-7056 CycLex ${ }^{(8)}$ Phospho-p62 Ser349 ELISA Kit
Size
96 Assay
96 Assay
CY-7057 CycLex ${ }^{\text {® }}$ Phospho-p62 Ser403 ELISA Kit
<Antibodies>
Code No. Product
PM045 Anti-p62 (SQSTM1) pAb
PM066 Anti-p62 C-terminal pAb
PM066-7 Anti-p62 C-terminal pAb-HRP-DirecT Polyclonal
M162-3 Anti-p62 (SQSTM1) (Human) mAb 5F2
M162-A48 Anti-p62 (SQSTM1) (Human) mAb-Alexa Fluor®488 5F2
M162-A59 Anti-p62 (SQSTM1) (Human) mAb-Alexa Fluor ${ }^{\circledR} 594$ 5F2
M162-A64 Anti-p62 (SQSTM1) (Human) mAb-Alexa Fluor ${ }^{\text {B } 647 ~ 5 F 2 ~}$
PM074 Anti-Phospho-p62 (SQSTM1) (Ser351) pAb Polyclonal
M217-3 Anti-Phospho-p62 (SQSTM1) (Ser351) mAb
D343-3 Anti-Phospho-p62 (SQSTM1) (Ser403) mAb
D344-3 Anti-Phospho-p62 (SQSTM1) (Ser403) mAb
PM069 Anti-NRF2 pAb
M200-3 Anti-NRF2 mAb
M224-3 Anti-KEAP1 mAb
MK-11-3 Anti-Ubiquitin $m A b$
MK-12-3 Anti-Ubiquitin mAb
D058-3 Anti-Multi Ubiquitin mAb
D058-3 Anti-Multi Ubiquitin mAb $\quad$ 2C5

* Application : WB: Western Blotting, IP : Immunoprecipitation, IH : Immunohistochemistry, IC : Immunocytochemistry, FCM : Flow Cytometry
(aff.) : affinity purified *: The use is reported in a research article (Not tested by MBL). Please check the data sheet for detailed information.

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