# CoraLite®555-conjugated SOD2 Monoclonal antibody 

www.ptglab.com
Catalog Number:CL555-66474

| Basic Information | Catalog Number: | GenBank Accession Number: | Purification Method: |
| :---: | :---: | :---: | :---: |
|  | CL555-66474 | BC016934 | Protein A purification |
|  | Size: | Geneld (NCBI): | CloneNo.: |
|  | 100ul , Concentration: $1000 \mu \mathrm{~g} / \mathrm{ml}$ by | 6648 | 3A6C2 |
|  | Nanodrop; | Full Name: | Excitation/Emission maxima |
|  | Source: | superoxide dismutase 2, | wavelengths: |
|  | Mouse | mitochondrial | $555 \mathrm{~nm} / 570 \mathrm{~nm}$ |
|  | Isotype: | Calculated MW: |  |
|  | IgG2a | 25 kDa |  |
|  | Immunogen Catalog Number: | Observed MW: |  |
|  | AG21388 | 25 kDa |  |

$\overline{\text { Applications }} \overline{\text { Background Information }}$

Tested Applications:
FC (Intra)
Species Specificity:
Human, mouse, rat, pig

Background Information
2(superoxide dismutase 2, mitochondrial ) is also named as IPOB, MNSOD, SODM, Mn-SOD and belongs to the iron/manganese superoxide dismutase family. It is a marker of mitochondria, which is restricted to the perinuclear area in a cell with aggregate formation of mutant SOD1(PMID:12659845). It functions as the first line of antioxidant defense against highly reactive superoxide radicals and it appears to be early predictors for survival in septic patients with with MIF(PMID:20863520). It has 2 isoforms with the molecular weight of 25 kDa and 21 kDa .

## Storage

*** 20ul sizes contain 0.1\% BSA

Storage:
Store at $-20^{\circ} \mathrm{C}$. Avoid exposure to light.
Storage Buffer:
PBS with $50 \%$ Glycerol, $0.05 \%$ Proclin300, $0.5 \%$ BSA, pH 7.3.
Aliquoting is unnecessary for $-20^{\circ} \mathrm{C}$ storage

Selected Validation Data

$1 \times 10^{\wedge} 6$ HeLa cells were intracellularly stained with
0.4 ug CoraLite® 555 Anti-Human SOD2 (CL555-

66474, Clone:3A6C2) (red), or 0.4 ug Control
Antibody. Cells were fixed with 4\% PFA and permeabilized with Flow Cytometry Perm Buffer
(PF00011-C).

