# SOD1 (mutant) antibody [MS785]

## Cat. No. GTX57211

| | |
|---|---|
| **Host** | Rat |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2b |
| **Applications** | WB, ICC/IF, IHC-P, IP, ELISA, IHC |
| **Reactivity** | Human |

References ( 3 )
Package
200 µl

## Applications

**Application Note**

*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|---|---|
| WB | Assay dependent |
| ICC/IF | 1 µg/ml (1/500 dilution) -5 µg/ml (1/100 dilution) |
| IHC-P | Assay dependent |
| IP | 1-5µg/sample |
| ELISA | Assay dependent |
| IHC | 1 µg/ml (1/500 dilution) -5 µg/ml (1/100 dilution) |

**Note : Target : SOD1 mutants**
**Target : SOD1 mutants under native condition ; Wild-type SOD1 under the zinc-deficient ER-stress. GTX57211 and GTX57212 could recognize not only mutants but also denatured SOD1. Please keep non-denatured condition and avoid to use high concentration of SDS or the other denaturing compounds.**
**Target : SOD1 mutants**

Not tested in other applications.

| | |
|---|---|
| **Calculated MW** | 16 kDa. ( Note ) |
| **Product Note** | Clone MS785 and MS27, which specifically bind to conformationally altered SOD1 mutants, not detecting wild type SOD1 homo-dimer. Both clones are succeeded in specifically detecting over 100 SOD1 mutants (please see to Appendix for detail description). |

## Properties

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|---|---|
| **Form** | Liquid |
| **Buffer** | PBS, 50% Glycerol |
| **Preservative** | No preservatives |
| **Storage** | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles. |

For full product information, images and publications, please visit our website.



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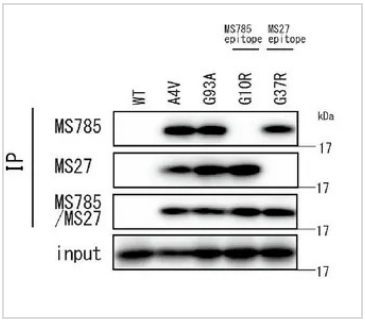
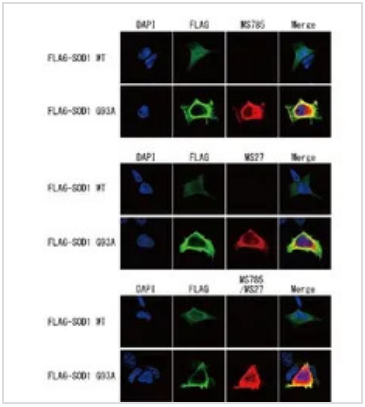
| | |
|---|---|
| **Concentration** | 0.5 mg/ml (Please refer to the vial label for the specific concentration.) |
| **Immunogen** | Human SOD1 8-14 amino acids. |
| **Purification** | Protein G Purified. |
| **Conjugation** | Unconjugated |
| **Note** | For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.<br><br>Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product. |

## DATA IMAGES



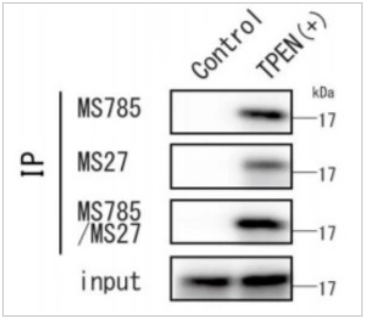

### GTX57211 IP Image

IP analysis of SOD1 wild type or mutants-expressing HEK293 cells using GTX57211 SOD1 (mutant) antibody [MS785], GTX57212 SOD1 (mutant) antibody [MS27], or MS785/MS27 cocktail. Neither MS785 nor MS27 single detected some specific mutants which have the mutation on the antibody's epitope. MS785/MS27 cocktail overcame this problem. Validated SOD1 mutants were listed in "Appendix".
Antibody amount :
MS27 (GTX57212): 2µg, MS785 (GTX57211): 5µg, or MS27/MS785 cocktail: 1µg
IP lysis buffer: 1% Triton X100/TBS buffer.




### GTX57211 ICC/IF Image

ICC/IF analysis of Flag-tagged SOD1 wild type or G93A mutant-expressing HEK293 cells using GTX57211 SOD1 (mutant) antibody [MS785], GTX57212 SOD1 (mutant) antibody [MS27] or MS785/MS27 cocktail.
Fixation : 4% PFA for 10 min at RT.
Permeabilization : 0.2% Triton X-100 for 5 min
Dilution : 1µg/ml (12 hours at 4ºC)




### GTX57211 IP Image

IP analysis of HEK293 cells cultured in the presence and absence of 10µM TPEN (a potent zinc-specific chelator, for 8 hours) using GTX57211 SOD1 (mutant) antibody [MS785]. Under the zinc-deficient ER-stress, these antibodies could recognize endogenous SOD1 wild type with mutant like conformation.
Antibody amount : 1-5 µg

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