



## Anti-Human BDNF (#6G49)

20230310DS



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

<b>Cat.-no.:</b>	<b>101-M138</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with human recombinant protein of Brain-Derived Neurotrophic Factor (BDNF)).

### Target Background

<b>Synonyms (Target):</b>	BDNF
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BDNF is a member of the NGF family of neurotrophic growth factors. Like other members of this family, BDNF supports neuron proliferation and survival. BDNF can bind to a low affinity cell surface receptor called LNGFR, which also binds other neurotrophins such as NGF, NT-3 and NT-4. However, BDNF mediates its neurotrophic properties by signaling through a high affinity cell surface receptor called gp145/trkB. BDNF is expressed as the C-terminal portion of a 247 amino acid polypeptide precursor, which also contains a signal sequence of 18 amino acid residue and a propeptide of 110 amino acid residues. Recombinant human BDNF is a 27.0 kDa homodimer of two 119 amino acid subunits linked by strong non-covalent interactions. Human and Mouse BDNF sequences are identical.

### Database References Target

<b>Protein RefSeq:</b>	NP_733931.1
<b>Uniprot ID:</b>	P23560
<b>mRNA RefSeq:</b>	NM_170735.5

### Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#6G49)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	Human recombinant BDNF
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS

### Application/Handling

**Reconstitution:** Centrifuge vial prior to opening. Reconstitute the antibody with 500 µl sterile PBS and the final concentration is 200 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20°C for at least for six months without detectable loss of activity.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

The antibody can be used within the following applications:

Capture Ab

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**