abcam

Product datasheet

Anti-LRRK2 (phospho T2483) antibody [MJF-R8 (21-2e)] ab156577

重组 RabMAb

3 References 2 图像

概述

产品名称	Anti-LRRK2 (phospho T2483)**抗体**[MJF-R8 (21-2e)]
描述	**兔单克隆抗体**[MJF-R8 (21-2e)] to LRRK2 (phospho T2483)
宿主	Rabbit
经测试应用	**适用于:** WB
种属反应性	**与反应:** Human
免疫原	Synthetic peptide corresponding to Human LRRK2 (phospho T2483). Database link: **Q5S007**
阳性对照	HEK293 cells transiently transfected with wild-type or mutant LRRK2.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. This antibody was developed with support from The Michael J. Fox Foundation. THE MICHAEL J. FOX FOUNDATION FOR PARKINSON'S RESEARCH

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

	supernatant
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	MJF-R8 (21-2e)
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab156577于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

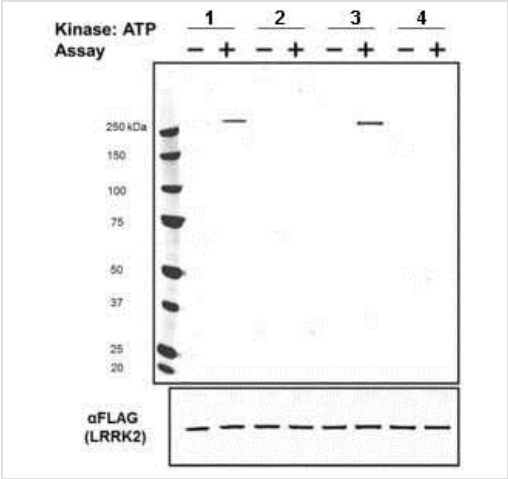
应用	Ab评论	说明
WB		1/1000 - 1/5000. Predicted molecular weight: 286 kDa.

靶标

功能	Positively regulates autophagy through a calcium-dependent activation of the CaMKK/AMPK signaling pathway. The process involves activation of nicotinic acid adenine dinucleotide phosphate (NAADP) receptors, increase in lysosomal pH, and calcium release from lysosomes. Together with RAB29, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). Plays a role in synaptic vesicle trafficking. Phosphorylates PRDX3. Has GTPase activity. May play a role in the phosphorylation of proteins central to Parkinson disease.
组织特异性	Expressed in the brain. Expressed in pyramidal neurons in all cortical laminae of the visual cortex, in neurons of the substantia nigra pars compacta and caudate putamen (at protein level). Expressed throughout the adult brain, but at a lower level than in heart and liver. Also expressed in placenta, lung, skeletal muscle, kidney and pancreas. In the brain, expressed in the cerebellum, cerebral cortex, medulla, spinal cord occipital pole, frontal lobe, temporal lobe and putamen. Expression is particularly high in brain dopaminoceptive areas.
疾病相关	Parkinson disease 8
序列相似性	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Contains 12 LRR (leucine-rich) repeats. Contains 1 protein kinase domain. Contains 1 Roc domain. Contains 7 WD repeats.
结构域	The seven-bladed WD repeat region is critical for synaptic vesicle trafficking and mediates interaction with multiple vesicle-associated presynaptic proteins. The Roc domain mediates homodimerization and regulates kinase activity.
翻译后修饰	Autophosphorylated.
细胞定位	Membrane. Cytoplasm. Perikaryon. Mitochondrion. Golgi apparatus. Cell projection, axon. Cell projection, dendrite. Endoplasmic reticulum. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Endosome. Lysosome. Mitochondrion outer membrane. Mitochondrion inner membrane. Mitochondrion matrix. Predominantly associated with intracytoplasmic vesicular and membranous structures (By similarity). Localized in the cytoplasm and associated with cellular

membrane structures. Predominantly associated with the mitochondrial outer membrane of the mitochondria. Colocalized with RAB29 along tubular structures emerging from Golgi apparatus. Localizes in intracytoplasmic punctate structures of neuronal perikarya and dendritic and axonal processes.

图片



Western blot - Anti-LRRK2 (phospho T2483) antibody [MJF-R8 (21-2e)] (ab156577)

All lanes : Anti-LRRK2 (phospho T2483) antibody [MJF-R8 (21-2e)] (ab156577) at 1/1000 dilution

Lane 1 : HEK293 cells transiently transfected with wild type LRRK2
Lane 2 : HEK293 cells transiently transfected with T2483
Lane 3 : HEK293 cells transiently transfected with G2019S
Lane 4 : HEK293 cells transiently transfected with Kinase dead

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 286 kDa

LRRK2 protein was immunoprecipitated and subjected to an in vitro kinase assay in the presence (+) or absence (-) of ATP.

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