

Mouse Anti-OTK4/FKBP1B/FKBP12.6 [H8]: MC0183

Intended Use: For Research Use Only

Description: Immunophilins are a highly conserved family of cis-trans peptidyl-prolyl isomerases which bind to and mediate the effects of immunosuppressive drugs such as Cyclosporin, FK506 and Rapamycin. FKBP12.6 or OTK4, also known as FK506-binding protein 1B, is a 108 amino acid immunophilin belonging to the FKBP type PPIase family. Subcellularly localized to the cytoplasm, FKBP12.6 binds to RyR in cardiac muscle sarcoplasmic reticulum and possibly plays a unique physiological role in excitation-contraction coupling in cardiac muscle. FKBP12.6 also catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Ubiquitously expressed, FKBP12.6 is found at highest levels in brain and thymus. FKBP12.6 is expressed as two isoforms produced by alternative splicing.

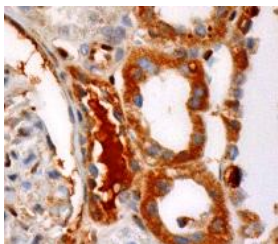
Specifications:

Clone: H8
Source: Mouse
Isotype : IgG1
Reactivity: Human, mouse, rat, equine, canine, bovine and porcine
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA, glycerol, and ≤0.09% sodium azide (NaN₃).
Storage: Store at 2°- 8°C.
Applications: IHC, ELISA, ICC/IF, IP, WB
Package:

Description	Catalog No.	Size
OTK4/FKBP1B/FKBP12.6 Concentrated	MC0183	1 ml

IHC Procedure*:

Positive Control Tissue: Kidney, CCRF-CEM cell lysate, Jurkat whole cell lysate
Concentrated Dilution: 50-250
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human kidney stained with anti-OTK4/FKBP1B/FKBP12.6 using DAB

References:

1. K201 (JTV519) suppresses spontaneous Ca²⁺ release and [3H]ryanodine binding to RyR2 irrespective of FKBP12.6 association. Hunt, D.J., et al. Biochem. J. 404: 431-438, 2007.
2. Genomic organization, chromosomal localization, and promoter of human gene for FK506-binding protein 12.6. Nakazawa, T., et al. Gene 360:55-64, 2005.
3. Interaction of FKBP12.6 with the cardiac ryanodine receptor C-terminal domain. Zissimopoulos, S., et al. J. Biol. Chem. 280: 5475-5485, 2005.
4. Dysregulated ryanodine receptors mediate cellular toxicity: restoration of normal phenotype by FKBP12.6. George, C.H., et al. J. Biol. Chem. 278: 28856-28864, 2003.

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