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Store at -20C
#3480

Pyk2 (5E2) Mouse mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, W-S, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 116	Source/Isotype: Mouse IgG2a	UniProt ID: #Q14289	Entrez-Gene Id: 2185
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Product Usage Information

Application

Western Blotting
Simple Western™
Immunoprecipitation

Dilution

1:1000
1:50 - 1:250
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Pyk2 (5E2) Mouse mAb detects endogenous levels of total Pyk2 protein. It does not cross-react with other related proteins.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a GST-Pyk2 fusion protein containing residues surrounding the carboxy-terminal of human Pyk2.

Background

Protein-tyrosine kinase 2 (Pyk2), also called CAKβ, RAFTK, and CADTK, is a nonreceptor tyrosine kinase structurally related to focal adhesion kinase (FAK) (1-4). Pyk2 is predominantly expressed in cells derived from hematopoietic lineages and in the central nervous system. Pyk2 is one of the signaling mediators for the G protein-coupled receptors and MAP kinase signaling pathway. It plays an important role in cell spreading and migration (5-7).

Background References

1. Avraham, S. et al. (1995) *J. Biol. Chem.* 270, 27742-27751.
2. Lev, S. et al. (1995) *Nature* 376, 737-745.
3. Sasaki, H. et al. (1995) *J. Biol. Chem.* 270, 21206-21219.
4. Yu, H. et al. (1996) *J. Biol. Chem.* 271, 29993-29998.
5. Duong, L.T. et al. (2001) *J Biol Chem* 276, 7484-92.
6. Watson, J.M. et al. (2001) *J Biol Chem* 276, 3536-42.
7. Tang, H. et al. (2002) *J Biol Chem* 277, 5441-7.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse

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