

Store at
-20C
#13519**LXR- β (D6M9D) Rabbit mAb**

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 63	Source/Isotype: Rabbit IgG	UniProt ID: #P55055	Entrez-Gene Id: 7376
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Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

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

Specificity/Sensitivity

LXR- β (D6M9D) Rabbit mAb recognizes endogenous levels of total LXR- β protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human LXR- β protein.

Background

Liver X receptors LXR- α and LXR- β are nuclear hormone receptor superfamily members responsible for regulating expression of target genes that control cholesterol transport and metabolism (1). When bound by the oxidized derivatives of cholesterol (oxysterols), activated LXR receptors function as sterol sensors to regulate transcription of the genes involved in the cholesterol homeostasis (1,2). The LXR- α protein is expressed at high levels in rat liver, kidney, intestine, adipose, and spleen; LXR- β is more ubiquitously expressed within rat tissues (1,3). Research studies indicate that glucose binds and upregulates the transcriptional activity of LXR- α and LXR- β (4). LXR- α and LXR- β are putative glucose sensors that integrate glucose metabolism and fatty acid biosynthesis in the liver (4). Additional studies show that female mice deficient in LXR- β develop gallbladder cancer (5). In addition, LXR- β plays a role in protecting dopaminergic neurons in a Parkinson's disease model (6).

Background References

1. Repa, J.J. et al. (2000) *Genes Dev* 14, 2819-30.
2. Willy, P.J. et al. (1995) *Genes Dev* 9, 1033-45.
3. Teboul, M. et al. (1995) *Proc Natl Acad Sci USA* 92, 2096-100.
4. Mitro, N. et al. (2007) *Nature* 445, 219-23.
5. Gabbi, C. et al. (2010) *Proc Natl Acad Sci USA* 107, 14763-8.
6. Dai, Y.B. et al. (2012) *Proc Natl Acad Sci USA* 109, 13112-7.

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 BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **R:** Rat

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