TECHNICAL DATA SHEET

PRODUCT NAME LSD1 polyclonal antibody		
Other names: BHC110, AOF2, EC1, KDM1		
Cat. No. pAb-067-050	**Type:** Polyclonal	**Size:** 50 µg/ 167 µl
Lot #: A57-0012	**Source:** Rabbit	**Concentration:** 0.3 µg/µl

Description: Polyclonal antibody raised in rabbit against human LSD1 (Lysine-specific demethylase 1), using a KLH-conjugated synthetic peptide from the inner part of the protein.

Specificity: Human: positive
Other species: not tested

Applications	Suggested dilution	References
ELISA	1:200 – 1:1,000	Fig 1
Western blotting	1:1,000	Fig 2

Purity: Affinity purified polyclonal antibody in PBS containing 0.05% azide and 0.05% ProClin 300.

Storage: Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Last data sheet update: March 17, 2010

Target description
LSD1 (lysine specific demethylase 1, UniProt/Swiss-Prot entry O60341) is a component of the histone demethylase complex that uses FAD as a prosthetic goup. LSD1 may have a dual effect on gene transcription. As it demethylates the mono- and dimethylated 'Lys-4' of histone H3, which are associated with transcriptional activation, LSD1 can act as a repressor of gene expression. However, LSD1 is also capable of demethylating 'Lys-9' of histone H3, a specific tag for epigenetic transcriptional repression, thereby leading to activation of androgen receptor target genes. LSD1 therefore mediates different processes such as embryonic development, cell differentiation and proliferation, stem and cancer cell biology.

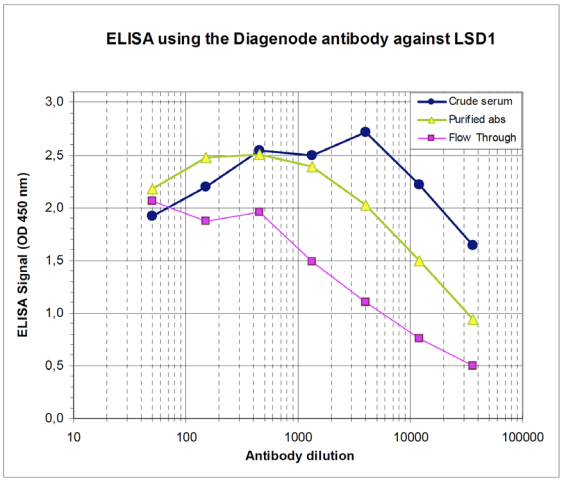

Figure 1

Determination of the antibody titer

To determine the titer of the antibody, an ELISA was performed using a serial dilution of the Diagenode antibody directed against human LSD1 (Cat. No. pAb-067-050), crude serum and Flow Through in antigen coated wells. By plotting the absorbance against the antibody dilution (Figure 1), the titer of the antibody was estimated to be 1:20,000.

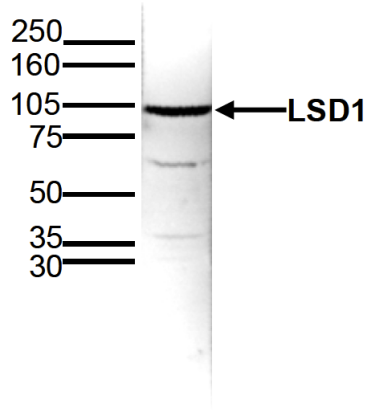

Figure 2

Western blot analysis using the Diagenode antibody directed against LSD1

Western blot was performed using nuclear extracts from HeLa cells (HeLa NE, 40 µg) and the Diagenode antibody against LSD1 (Cat. No. pAb-067-050) diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The molecular weight marker (in kDa) is shown on the left. The location of the protein of interest is indicated on the right.