

DDO (m): 293T Lysate: sc-119700

BACKGROUND

DDO (D-aspartate oxidase), also known as DASOX, is a 341 amino acid protein that localizes to peroxisomes and exists as two alternatively spliced isoforms, designated DDO-1 and DDO-2. Using FAD or 6-hydroxyflavin adenine dinucleotide as cofactors, DDO functions as a peroxisomal flavoprotein that selectively catalyzes the oxidative deamination of D-aspartate and N-methyl D-aspartate. Human DDO shares 86% sequence similarity with its bovine counterpart, suggesting a conserved role between species. The gene encoding DDO maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: Ddo (mouse) mapping to 10 B1.

PRODUCT

DDO (m): 293T Lysate represents a lysate of mouse DDO transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

DDO (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive DDO antibodies. Recommended use: 10-20 µl per lane.

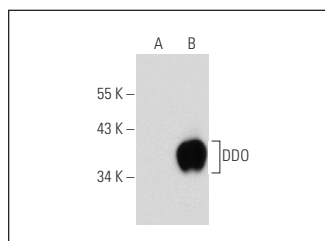
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

DDO (H-6): sc-365135 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse DDO expression in DDO transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

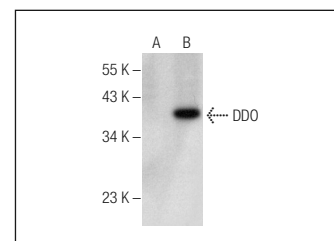
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



DDO (H-6): sc-365135. Western blot analysis of DDO expression in non-transfected: sc-117752 (A) and mouse DDO transfected: sc-119700 (B) 293T whole cell lysates.



DDO (D-8): sc-376705. Western blot analysis of DDO expression in non-transfected: sc-117752 (A) and mouse DDO transfected: sc-119700 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.