

DESCRIPTION

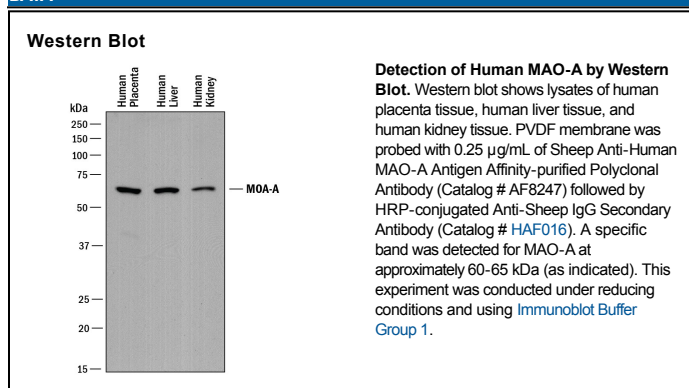
Species Reactivity	Human
Specificity	Detects human MAO-A in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human MAO-A Met1-Ser497 (predicted) Accession # P21397
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.25 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

MAO-A (Monoamine oxidase type A and Amine oxidase [flavin-containing] A) is a 60 kDa (predicted) member of the flavin monoamine oxidase family of proteins. MAO-A is an enzyme that degrades amine neurotransmitters, such as dopamine, norepinephrine, and serotonin. It localizes to the outer mitochondrial membrane. Mutation in this gene results in monoamine oxidase deficiency, or Brunner syndrome, a form of X-linked non-dysmorphic mild mental retardation. Male patients are affected by borderline mental retardation and exhibit abnormal behavior, including disturbed regulation of impulsive aggression. Obligate female carriers have normal intelligence and behavior. Over aa 1-497, human MOA-A shares 88% aa sequence identity with mouse MOA-A.