

R1147**Polyclonal Antibody to Fructosyl-Amino Acid Oxidase [E.coli] - Serum****Quantity:** 2 ml**Concentration:** 90.0 mg/ml (by Refractometry)**Background:**

Fructosyl amino acid oxidase (FAOX or FAOD) catalyzes the oxidative deglycation of fructosyl amino acids, yielding the corresponding amino acid, glucosone, and hydrogen peroxide. Glucose can be attached to amino acids by a nonenzymatic reaction called "glycation", to distinguish it from the enzymatic glycosylation of proteins.

(FAOX) can be used for the enzymatic detection of nonenzymatically glycosylated proteins. Glycation of protein has been implicated in the development of diabetic complications and the aging process. Glycation of blood proteins such as hemoglobin and albumin is enhanced in diabetics with high blood glucose. The amounts of these glycosylated proteins reflect the level of blood glucose in periods corresponding to the half life of the protein (14 to 20 days for albumin and 1 to 2 months for hemoglobin). Since the glycation of blood proteins is not affected by transient increases in blood glucose, the levels of glycosylated proteins are good indices for monitoring diabetes mellitus patients during therapy. HbA1c, blood levels of which are a good index of the long term control of blood glucose in patients with diabetes mellitus, is defined as an amino end of the β subunit (valine residue) of hemoglobin that has been glycosylated nonenzymatically.

Host: Sheep**Immunogen:** Fructosyl-Amino Acid Oxidase [E.coli].**Format:****State:** Lyophilized purified Ig fraction.**Purification:** Prepared from monospecific antiserum by a delipidation and defibrination.**Buffer System:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% sodium azide as preservative.**Reconstitution:** Restore with 2.0 ml of deionized water (or equivalent).**Applications:**

Suitable for Immunoblotting (Western 1:500-1:5,000), ELISA, Immunoprecipitation (1:100) and most Immunological methods requiring high titer and specificity.

Recommended Dilutions: This product has been assayed against 1.0 μ g of Fructosyl-Amino Acid Oxidase [E.coli] in a standard sandwich ELISA using Peroxidase conjugated Affinity Purified anti-Sheep IgG [H&L] (Rabbit) and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Fructosyl-Amino Acid Oxidase [E.coli].
Cross reactivity against Fructosyl-Amino Acid Oxidase from other sources is unknown.

Storage:

Store vial at 2-8°C prior to restoration. For extended storage add glycerol to 50% and then aliquot contents and freeze at -20°C or below. Centrifuge product if not completely clear after standing at room temperature.
This antibody is stable for one month at 2-8°C as an undiluted liquid.
Dilute only prior to immediate use.
Avoid repeated freezing and thawing.
Shelf life: One year from despatch.