

Sheep Myeloperoxidase (MPO) ELISA Kit

Catalog No: #EK11999



Package Size: #EK11999-1 48T #EK11999-2 96T

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Description

Product Name	Sheep Myeloperoxidase (MPO) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Sheep (<i>Ovis aries</i>)
Accession No.	P05164
Uniprot	P05164
GeneID	4353;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MPO in samples. An antibody specific for MPO has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMPO present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MPO is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MPO bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Myeloperoxidase (MPO) is a hemoprotein that is abundantly expressed in polymorphonuclear leukocytes (neutrophils) and secreted during their activation. The presence of a peroxidase in the cytoplasmic granules of leukocytes was suggested at the beginning of 20th century but it was the early 1940s that it was purified for the first time.Native MPO is a covalently bound tetrameric complex of two glycosylated alpha chains (MW 59 C 64 kDa) and two unglycosylated beta chains (MW 14 kDa) with total MW about 150 kDa and theoretical pI 9.2. MPO plays an important role in neutrophil microbicidal action through catalyzing chloride ion oxidation to hypochlorous acid, which is a potent antimicrobial agent.

Note: This product is for in vitro research use only