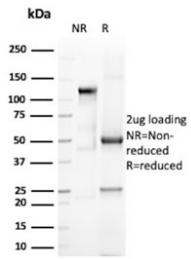
Eosinophil Peroxidase Antibody AHE-1 / EPO Antibody [clone AHE-1] (V2302)

Catalog No.	Formulation	Size
V2302-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2302-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2302SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Citations (6)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	AHE-1
Purity	Protein G purified monoclonal antibody
Gene ID	8288
Localization	Cytoplasmic, granular
Applications	ELISA (order BSA/sodium azide-free format for coating) Immunofluorescence: 1-3ug/ml Flow cytometry: 1-2ug/million cells
Limitations	This Eosinophil Peroxidase Antibody AHE-1 is available for research use only.



SDS-PAGE analysis of purified, BSA-free Eosinophil Peroxidase Antibody AHE-1 as confirmation of integrity and purity.

Description

Eosinophil Peroxidase Antibody AHE-1 is a monoclonal antibody that detects eosinophil peroxidase, an abundant granule protein expressed in eosinophils. Eosinophil peroxidase contributes to the cytotoxic activity of eosinophils by catalyzing the formation of reactive oxidants that damage pathogens and modulate inflammation. Because of its specificity for eosinophils, this antibody is widely used as a marker for eosinophil biology, allergy, and inflammatory disease. NSJ Bioreagents provides Eosinophil Peroxidase Antibody AHE-1 for immunology, pathology, and disease research.

Eosinophil Peroxidase antibody clone AHE-1 produces strong cytoplasmic staining in eosinophils within blood smears and tissue samples. Its high specificity makes it an excellent tool for distinguishing eosinophils from other granulocytes such as neutrophils and basophils. In diagnostic pathology, clone AHE-1 is applied to identify eosinophilic infiltration in tissues, which is characteristic of allergic reactions, asthma, and eosinophilic gastrointestinal diseases.

In immunology, Eosinophil Peroxidase antibody clone AHE-1 has been used to study how eosinophils contribute to innate and adaptive immunity. Eosinophil granule proteins, including peroxidase, play roles in host defense against parasites, where they contribute to tissue damage and pathogen clearance. Clone AHE-1 has helped researchers examine these functions and explore how eosinophils influence inflammatory pathways.

This antibody is also valuable in oncology. Eosinophil infiltration, visualized with Eosinophil Peroxidase antibody clone AHE-1, has been described in certain tumors, where eosinophils may exert either tumor-promoting or tumor-inhibiting effects. Understanding the distribution of eosinophils in the tumor microenvironment provides insights into cancer immunity.

In addition, clone AHE-1 has applications in experimental models of autoimmune and inflammatory diseases. By detecting eosinophil peroxidase, researchers can track eosinophil recruitment and activation, which are key events in conditions such as eosinophilic esophagitis and systemic hypereosinophilic syndromes.

Eosinophil Peroxidase Antibody AHE-1 has been validated in tissue and cell-based studies, delivering clear cytoplasmic signals with minimal background. It has an extensive citation record in allergy, immunology, and pathology. Alternate names include EPO antibody, eosinophil granule protein antibody, and eosinophil marker antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Eosinophil Peroxidase Antibody AHE-1 to be titered up or down for optimal performance.

Immunogen

Human eosinophils from a patient with hypereosinophilic syndrome were used as the immunogen for this Eosinophil peroxidase antibody.

Storage

Store the Eosinophil Peroxidase antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

EPO antibody, Eosinophil Peroxidase antibody

References (2)

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