Aeonian Biotech
Your choice for selective antibodies

TMA-validated antibodies

Cat nr AE00351 **Product Datasheet**

Rabbit Recombinant Antibody, AE005R to:

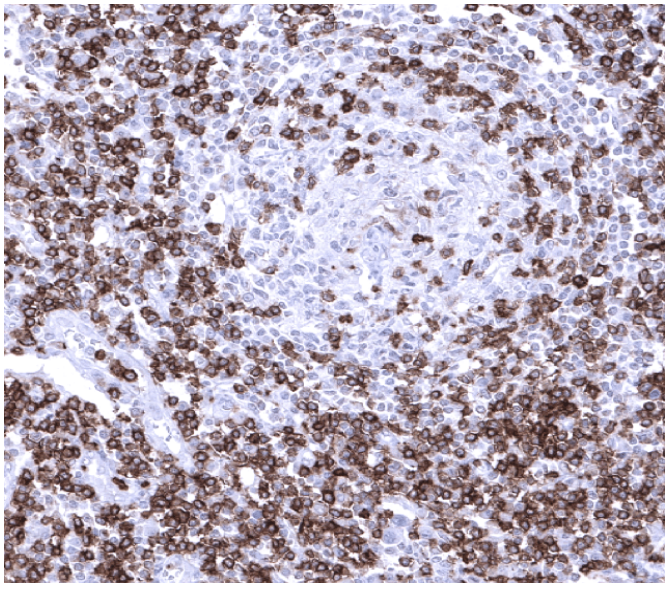
CD5

CD_antigen: CD5; Lymphocyte antigen T1/Leu-1; T-cell surface glycoprotein CD5; LEU1; T1

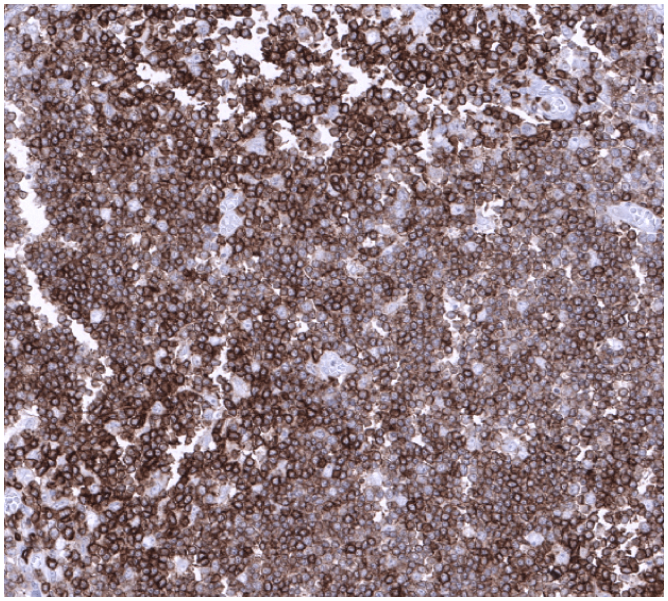
Cellular localization	cell surface, plasma membrane
Official Symbol (Gene)	CD5
GeneID	921
SwissProt	P06127
Confirmed Applications	IHC
Positive controls	Spleen, lymph node, thymus, tonsil
Aeonian Rating©	93
Purification	By Protein A from bioreactor concentrate
Formulation	☐ 0.2 mg IgG/ml in PBS with 0.5% BSA & 0.05% azide. ☐ 0.2 mg IgG/ml in PBS with 0.05% azide, without BSA.
Amount	☐ 200ug ☐ 1000ug
Isotype	Rabbit IgG
Confirmed species reactivity	Human
Immunogen	Recombinant fragment within the aa 32-372 region of human CD5 protein
Epitope	Extracellular domain within aa 32-372 region
Storage instructions	Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.
Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
Warranty	This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.
Product performance	see next pages

Product data:

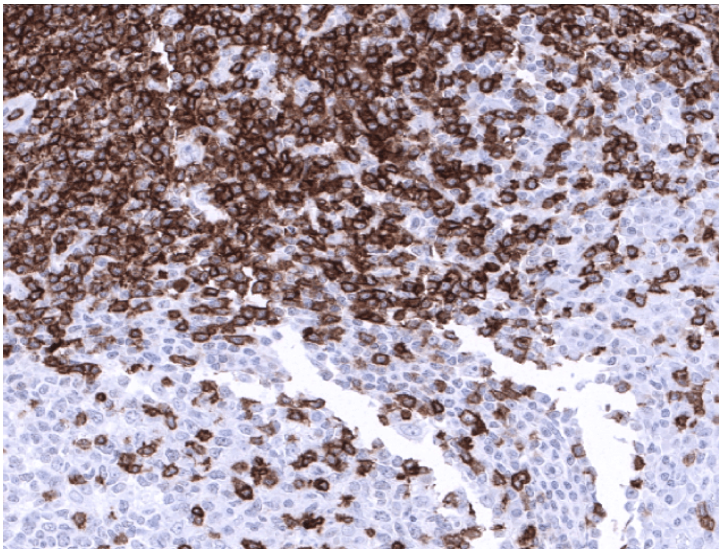
Immunohistochemistry (IHC):
This product was successfully used to stain plasma membranes of T-cells in human lymph node, thymus and tonsil sections. Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human lymph node stained with CD5 Rabbit Recombinant Antibody AE00351 at 1-2ug/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.



Formaldehyde-fixed, paraffin-embedded human thymus stained with CD5 Rabbit Recombinant Antibody AE00351 at 1-2ug/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.



Formaldehyde-fixed, paraffin-embedded human tonsil stained with CD5 Rabbit Recombinant Antibody AE00351 at 1-2ug/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.

Tissue Microarray Validation:

Normal tissues

Strong positive	Weak to moderate	No staining at all
lymph node	appendix mucosa	adipose
thymus	breast	adrenal gland
tonsil	bronchial glands	aorta, media
	colon mucosa	appendix muscular wall
	duodenum mucosa	bone marrow
	endocervix	bronchus mucosa
	ectocervix	cerebellum
	endometrium	cerebrum
	esophageal squamous epithelium	colon muscular wall
	fallopian tube	duodenum Brunner gland
	gallbladder	epididymis
	ileum mucosa	heart muscle
	liver	kidney
	pancreas	lung
	rectum mucosa	myometrium
	sinus paranasalis	ovarian stroma
	skin	parathyroid gland
	spleen	parotid gland
	stomach	pituitary gland
	urothelium	placenta
		pregnant uterus
		prostate
		seminal vesicle
		skeletal muscle
		testis
		thyroid gland
		urinary bladder muscular wall

Cancer tissues

Strong positive	Weak to moderate	No staining at all
chronic lymphocytic leukemia in lymph node	colorectal adenocarcinoma	peripheral T-cell lymphoma in lymph node
Hodgkin's lymphoma	clear cell renal cell carcinoma	
mantle cell lymphoma	papillary renal cell carcinoma	
	diffuse large B-cell lymphoma	
	seminoma	
	cervical squamous cell carcinoma	