Aeonian Biotech
Your choice for selective antibodies

TMA-validated antibodies

Cat nr AE00362 **Product Datasheet**

Rabbit Recombinant Antibody, AE614R to:

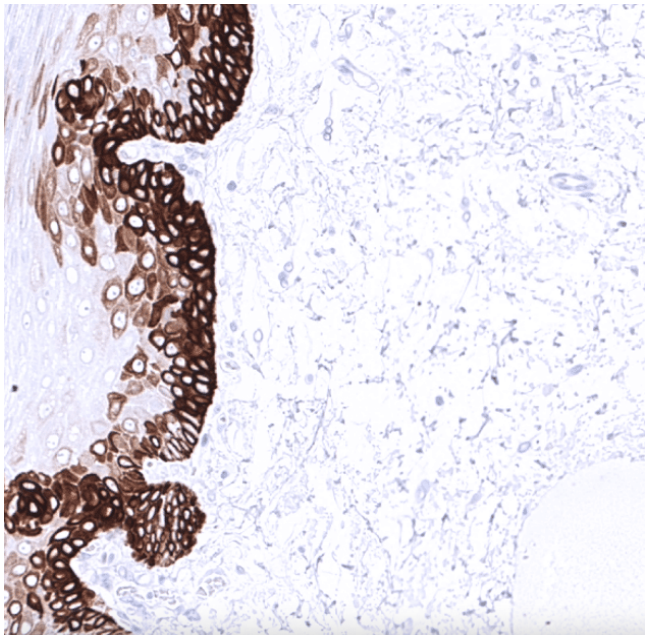
KRT14

cytokeratin 14; cytokeratin-14; keratin 14; keratin-14; keratin, type I cytoskeletal 14; CK14; CK-14; EBS1; EBS3; EBS4; EBS1A; EBS1B; EBS1C; EBS1D; K14; KRT14; NFJ

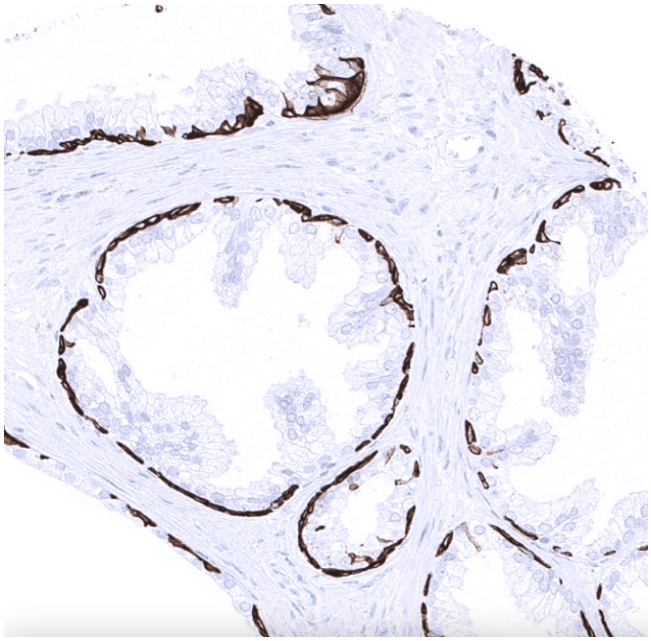
Cellular localization	cytoskeleton, cytoplasm
Official Symbol (Gene)	KRT14
GeneID	3861
SwissProt	P02533
Confirmed Applications	IHC
Positive controls	esophagus, prostate, skin
Aeonian Rating©	92
Purification	By Protein A from bioreactor concentrate
Formulation	☐ 0.2 mg IgG/ml in PBS with 0.5% BSA & 0.05% azide. ☐ 0.2 mg IgG/ml in PBS with 0.05% azide, without BSA.
Amount	☐ 200ug ☐ 1000ug
Isotype	Rabbit IgG, kappa
Confirmed species reactivity	Human
Immunogen	Recombinant fragment within the aa 350-472 region of human KRT14 protein
Epitope	within aa 350-472 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:

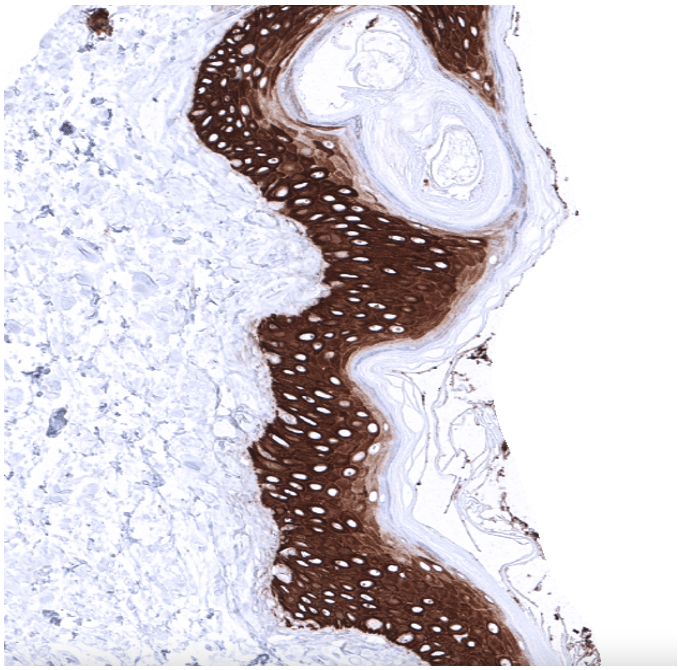
Immunohistochemistry (IHC):
This product was successfully used to stain basal cells in human esophagus and prostate, and all keratinocytes of skin sections. Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human esophagus stained with KRT14 Rabbit Recombinant Antibody AE00362 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 prostate stained with KRT14 Rabbit Recombinant Antibody AE00362 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 skin stained with KRT14 Rabbit Recombinant Antibody AE00362 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
breast	parotid gland	adipose
ectocervix	placenta	adrenal gland
esophagus squamous epithelium	thymus epithelial cells	aorta, media
prostate		appendix mucosa
sinus paranasalis		appendix muscular wall
skin		bone marrow
tonsil epithelial cells		bronchus mucosa
		cerebellum
		cerebrum
		colon mucosa
		colon muscular wall
		duodenum Brunner gland
		duodenum mucosa
		endocervix
		endometrium
		epididymis
		gallbladder
		heart muscle
		ileum mucosa
		kidney
		liver
		lung
		lymph node

		myometrium ovarian stroma pancreas parathyroid gland pituitary gland rectum mucosa seminal vesicle skeletal muscle spleen stomach testis thyroid gland urinary bladder muscular wall urothelium

Cancer tissues

Strong positive	**Weak to moderate**	**No staining at all**
esophagus squamous cell carcinoma		breast lobular carcinoma
oral squamous cell carcinoma		clear cell renal cell carcinoma
pharyngeal cancer		colorectal adenocarcinoma
		follicular thyroid carcinoma
		high-grade serous carcinoma
		papillary renal cell carcinoma
		prostate adenocarcinoma
		renal oncocytoma
		urothelial carcinoma