



Cat nr AE00346

Product Datasheet

Rabbit Recombinant Antibody, AE538R to:

Caldesmon

Caldesmon; CALD1; CAD; CDM; HCAD; H-CAD; h-CD; LCAD; L-CAD; NAG22

Cellular localization cytoskeleton

Official Symbol (Gene) CALD1
GenelD 800
SwissProt Q05682

Confirmed Applications IHC
Positive controls smooth muscle cells

Aeonian Rating© 90

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 full-length protein of human Caldesmon.

Epitope unknown

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.

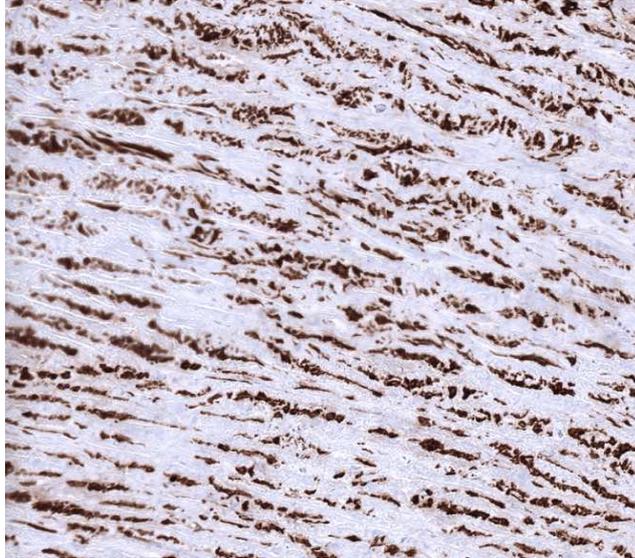
Liability This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance see next pages

Product data:

Immunohistochemistry (IHC):

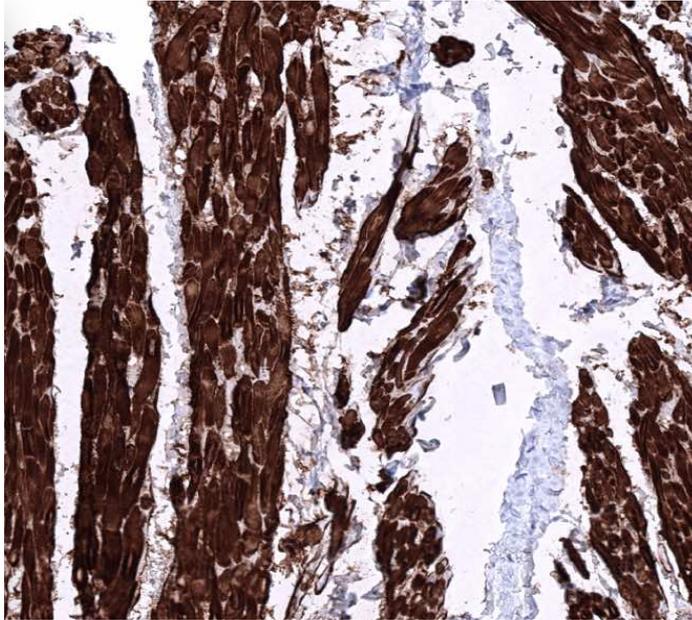
This product was successfully used to stain cytoskeleton in smooth muscle cells of aorta media, pancreatic blood vessels, and in the muscular wall of urinary bladder sections. Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human aorta media stained with Caldesmon Rabbit Recombinant Antibody AE00346 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 pancreas stained with Caldesmon Rabbit Recombinant Antibody AE00346 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 urinary bladder stained with Caldesmon Rabbit Recombinant Antibody AE00346 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

aorta, media
 appendix
 breast, myoepithelial cells
 bronchus mucosa
 colon
 duodenum
 epididymis
 esopagus, squamous epithelium
 gallbladder epithelium
 heart muscle, vascular smooth
 muscle cells
 ileum
 pancreas muscular vessels
 prostate
 rectal mucosa
 seminal vesicle
 skeletal muscle, vascular smooth
 muscle cells
 stomach
 urinary bladder muscular wall
 myometrium

Weak to moderate

fallopian tube
 ectocervix
 kidney
 liver
 lung
 ovarian stroma
 parathyroid gland
 parotid gland
 pituitary gland, posterior
 placenta, mature
 spleen, central arteries
 testis
 tonsil
 urothelium

No staining at all

adipose
 adrenal gland
 bone marrow
 cerebellum
 cerebrum
 endocervix
 endometrium
 lymph node
 pituitary gland, anterior
 skin
 thymus
 thyroid gland

Cancer tissues

Strong positive

angiomyolipoma
uterine leiomyosarcoma

Weak to moderate

No staining at all

cervix adenocarcinoma
cervix squamous cell carcinoma
colorectal adenocarcinoma
endometrioid endometrial carcinoma
endometrioid ovarian carcinoma
esophageal squamous cell carcinoma
prostate adenocarcinoma
renal clear cell carcinoma
thyroid papillary carcinoma
urothelial carcinoma
