



TMA-validated antibodies

Cat nr AE00382

Product Datasheet

Rabbit Recombinant Antibody, AE016R to:

TP16

Cyclin-dependent kinase inhibitor 2A; Cyclin-dependent kinase 4 inhibitor A; Melanoma, cutaneous malignant 2; Multiple tumor suppressor 1; CDK4I; CDKN2; CDKN2A; CMM2; MTS1; MTS-1; p16; p16-INK4; p16-INK4A; p16INK4; p16INK4A; TP16

Cellular localization	nucleus, cytoplasm
Official Symbol (Gene)	CDKN2A
GenelD	1029
SwissProt	P42771

Confirmed Applications	IHC
Positive controls	Pituitary gland, anaplastic thyroid carcinoma, urothelial carcinoma
Aeonian Rating©	90

Purification By Protein A from bioreactor concentrate

Formulation	<input type="checkbox"/>	0.2 mg IgG/ml in PBS with 0.5% BSA & 0.05% azide.
	<input type="checkbox"/>	0.2 mg IgG/ml in PBS with 0.05% azide, without BSA.
Amount	<input type="checkbox"/>	200ug
	<input type="checkbox"/>	1000ug
Isotype		Rabbit IgG, kappa

Confirmed species reactivity	Human
Immunogen	Recombinant full-length human TP16 protein

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.
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Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
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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.
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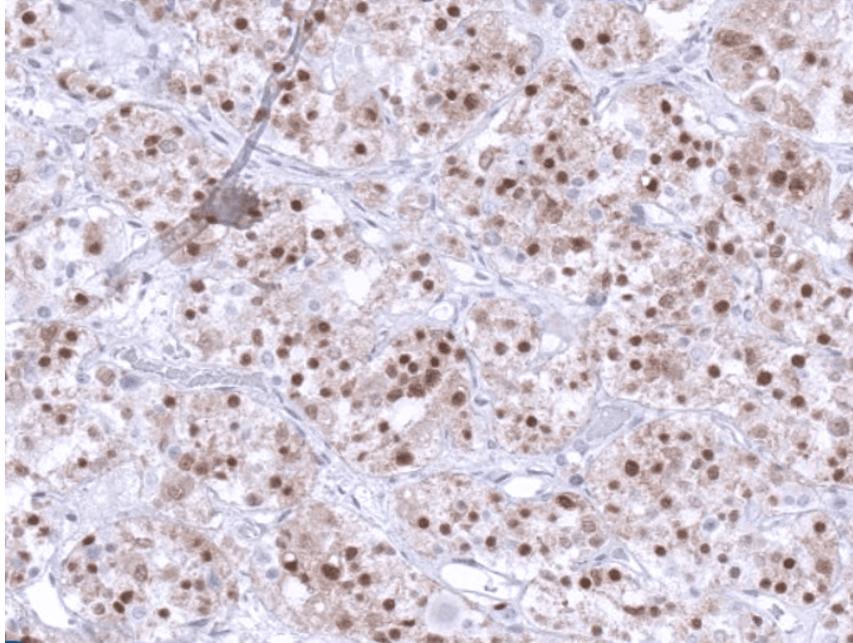
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.
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Product performance	see next pages
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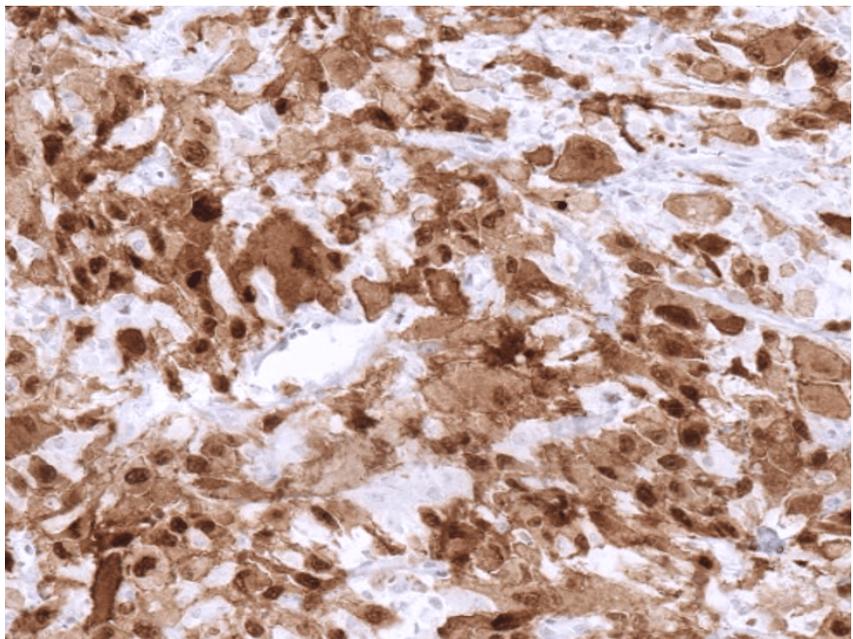
Product data:

Immunohistochemistry (IHC):

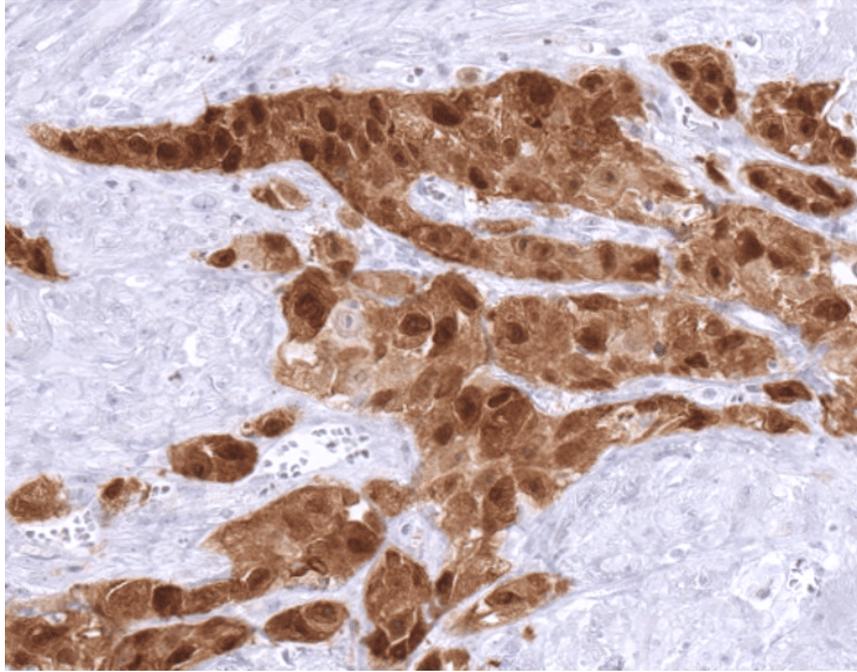
This product was successfully used to stain nuclei in the pituitary gland anterior lobe, and cytoplasm and nuclei in thyroid carcinoma and urothelial carcinoma sections. Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human pituitary gland anterior lobe stained with TP16 Rabbit Recombinant Antibody AE00382 at 1-2 µg/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 anaplastic thyroid carcinoma stained with TP16 Rabbit Recombinant Antibody AE00382 at 1-2 µg/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 muscle-invasive urothelial carcinoma stained with TP16 Rabbit Recombinant Antibody AE00382 at 1-2 µg/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
pituitary gland anterior lobe	adrenal gland	adipose
	appendix mucosa	appendix muscular wall
	breast	aorta media
	duodenum mucosa	bronchus mucosa
	endometrium, proliferation	cerebellum
	endometrium, secretion	cerebrum
	pancreas	colon mucosa
	prostate	colon muscular wall
	sinus paranasalis	duodenum Brunner gland
	thymus	endocervix
	tonsil	ectocervix
	urothelium	epididymis
		esophagus squamous epithelium
		fallopian tube
		gallbladder
		heart muscle
		ileum mucosa
		liver
		lung
		lymph node
		myometrium
		ovarian stroma
		parathyroid gland

parotid gland
placenta
rectum mucosa
renal cortex
renal medulla
seminal vesicle
skeletal muscle
skin
spleen
stomach
testis
thyroid gland
urinary bladder muscular wall

Cancer tissues

Strong positive

Weak to moderate

No staining at all

anaplastic thyroid carcinoma
cervix squamous cell carcinoma
high-grade serous carcinoma
leiomyosarcoma
liposarcoma
melanoma
Merkel cell carcinoma
oral squamous cell carcinoma
urinary bladder small cell carcinoma
urothelial carcinoma
