

PRODUCT INFORMATION SHEET

Mouse Monoclonal Antibody to p63a									
	Format: PURE	RUO	REF	IQP-1543P	Volume:	100µl			
	Description								
Clone	4E5								
Isotype	Mouse IgG1								
Specificity	p63a								
Alternative names	P51B; KET; p63a								
Species	Human, Mouse, Rat, Monkey								
Immunogen	Synthesized peptide of human p63a.								
Mw	51kDa								
Format	Ascitic fluid containing 0.0)3% sodium azi	de.						

Summary The p63 gene is a homologue of the p53 tumor suppressor gene. Like p53, p63 contains a transactivation (TA) domain induce the transcription of target genes, a DNA binding domain, and an oligomerization domain (OD), used to form tetramers. In contrast to p53, the p63 gene encodes for at least six major isotypes. Three isotypes (TAp63a, TAp63 β , and TAp63 γ) contain the transactivating (TA) domain and are able to transactivate p53 report genes and induce apoptosis. In contrast, the other three isotypes ($\Delta Np63a$, $\Delta Np63\beta$, $\Delta Np63\gamma$) are transcribed from an internal promoter localized within intron3, lack the TA domain, and act as dominant-negatives to suppress transactivation by both p53 and TAp63 isotypes. p63 is highly expressed in the basal cells of the epithelium significant for proper limb outgrowth and morphogenesis.4 In differentiating tissues, p63 is crucial for maintaining the stem cell identity of the basal cells, and is indispensable for correct development of the skin as well as the limb. p63-deficient mice lack all squamous epithelia and their derivatives, including hair, whiskers, teeth, as well as mammary, lacrimal, and salivary glands.Tissue specificity: Widely expressed, notably in heart, kidney, placenta, prostate, skeletal muscle, testis and thymus, although the precise isoform varies according to tissue type. Progenitor cell layers of skin, breast, eye and prostate express high levels of DeltaN-type isoforms. Isoform 10 is predominantly expressed in skin squamous cell carcinomas, but not in normal skin tissues.

Applications ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000

Limitations

- 1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
- 2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
- 3. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
- 4. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.

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Handling and Storage

Store the vials at 2-8 °C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

Warranty Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

Characterization

- To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent.
- **Warning** All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

References

1.Cancer Res. 2008 Jul 1;68(13):5122-31. 2.Eur J Med Genet. 2008 Sep-Oct;51(5):497-500.

Explanation of used symbols

<u>li</u>	Consult instructions for use
REF	Catalogue number
$\overline{\mathbb{V}}$	Sufficient for
	Caution, consult accompanying document
*	Keep away from (sun)light
&	Biological risks
X	Temperature limitation (°C)
RUO	For Research Use Only
RUO LOT	Batch code
	Use by yyyy-mm-dd
	Manufacturer
	bright fluorescence
	bright fluorescence

P F R	PURE FITC R-PE	Label - tandem purified material FITC PE	Ex -max (nm) - 488 488, 532	Em -max (nm) - 519 578
C A PC	CyQ APC PerCP	PE-Cy5.18	488, 532 595, 633, 635, 647 488, 532	667 660 678
PCC	PerCP-Cy5.5		488, 532	695

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