14528 Store at -200

## Aromatase (D5Q2Y) Rabbit mAb



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<b>Applications:</b> WB, IP, IHC-P	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 50	Source/Isotype: Rabbit IgG	UniProt ID: #P11511	Entrez-Gene Id 1588	
Product Usage Information	Ap	Application			Dilution		
	We	stern Blotting			1	1000	
	Imr	nunoprecipitation			1	:50	
	Imr	Immunohistochemistry (Paraffin)			1:4200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sensit	<b>ivity</b> Aron	natase (D5Q2Y) Ra	bbit mAb recogn	izes endogenous levels	of total aromatase pro	tein.	
Source / Purification		•	,	nunizing animals with a s ıman aromatase protein		esponding to	
Background	cata resp brai nerv	Aromatase is a member of the cytochrome P450 superfamily of enzymes, which are monooxygenases that catalyze reactions involved in drug metabolism and cholesterol and steroid synthesis $(1,2)$ . Aromatase is responsible for the conversion of testosterone into 17- $\beta$ estradiol (2). Aromatase is mainly expressed in the brain (3), ovaries (4), and placenta (5). Aromatase plays an important role in development of the central nervous system during ontogenesis $(6,7)$ , gonadal development, and sex differentiation $(8,9)$ . Research studies have suggested that inhibition of aromatase may be an effective therapeutic strategy for postmenopausal breast cancers that are estrogen receptor positive $(6,10)$ . Mutations in the corresponding aromatase gene are associated with cases of aromatase excess syndrome (AEXS) and aromatase deficiency (AROD) disorders $(11-14)$ .					
	post aror	menopausal breast natase gene are ass	cancers that are sociated with cas	aromatase may be an e estrogen receptor posit	effective therapeutic st ive (6,10). Mutations in	rategy for n the corresponding	

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

11. Ito, Y. et al. (1993) Proc Natl Acad Sci U S A 90, 11673-7. 12. Morishima, A. et al. (1995) J Clin Endocrinol Metab 80, 3689-98.

13. Carani, C. et al. (1997) N Engl J Med 337, 91-5. 14. Fukami, M. et al. (2012) Int J Endocrinol 2012, 584807.

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer** 

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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**Limited Uses** 

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