

Thyroid Transcription Factor 1 (TTF-1) (D2E8) Rabbit mAb



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Applications: W, IF-F, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 39, 42	Source/Isotype: Rabbit	UniProt ID: #P43699	Entrez-Gene Id: 7080
Product Usage Information		Application Western Blotting Immunofluorescence Immunofluorescence	` ,	istry)		Dilution 1:1000 1:50 1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #19428.				
Specificity/Sensitivity		Thyroid Transcription Factor 1 (TTF-1) (D2E8) Rabbit mAb recognizes endogenous levels of total thyroid transcription factor 1 protein.				
Species predict based on 100% homology		Monkey				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human thyroid transcription factor 1 protein.				
Background		Thyroid Transcription Factor 1 (TTF-1, also known as NKX2-1), a member of the NKX homeobox transcription factor family, was initially discovered in the FRTL-5 rat thyroid cell line (1). Subsequent studies have shown that TTF-1 plays an important role in differentiation and morphogenesis of the developing thyroid, lung, and ventral forebrain (2). TTF-1 controls the expression of several genes, some of which are tissue specific, such as: thyroglobulin, thyroperoxidase, and the thyrotropin receptor in the thyroid; and surfactant proteins and clara cell secretory protein in the lung (2,3). Investigators have found that TTF-1 is expressed in malignant tumors of the thyroid and lung, and it is commonly used as a marker for both primary and malignant lung cancers (4-6).				
Background References		1. Civitareale, D. et al. 2. Boggaram, V. (2009 3. Yamaguchi, T. et al. (4. Whithaus, K. et al. (5. Yoshida, A. et al. (20 6. Moldvay, J. et al. (20	9) <i>Clin Sci (Lond)</i> 116 (2012) <i>Cancer Cell</i> (2012) <i>Arch Pathol L</i> (2011) <i>Lung Cancer 72</i>	5, 27-35. 21, 348-61. <i>ab Med</i> 136, 155-62. 2, 309-15.		
Species Reactiv	rity	Species reactivity is d	etermined by testin	g in at least one approv	ed application (e.g.,	, western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v BSA, 1X
Applications Key		W: Western Blotting IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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