

Product datasheet for **TA399806**

TP63 Rabbit Monoclonal Antibody [Clone ID: 14D5E8F12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	14D5E8F12
Applications:	ELISA, IHC
Reactivity:	Human
Modifications:	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated by immunizing mice with p40 peptide comprising amino acids 4-19 (LENNAQTQFSEPQYTN) of the p63 protein (Uniprot -Q9H3D4). The p40 peptide had a sulfhydryl group at its N-terminus and a carrier protein KLH to improve its immunogenicity.
Specificity:	<p>This antibody is specific for the p40 peptide of the human p63. P63 protein acts as a sequence specific DNA binding transcriptional activator or repressor. It is also involved in notch signaling by probably inducing JAG1 and JAG2 and plays a role in the regulation of epithelial morphogenesis. The p63 molecule has a high degree of structural homology with p53 and has three similar functional domains: N-terminal transcription activation region, core DNA binding region, and C-terminal oligomerization region.</p> <p>This antibody is highly similar to commercially available rabbit antibody ZR8 in immunohistochemical staining of p40. This antibody does not stain lung adenocarcinoma but positively stains lung squamous cell carcinoma. This antibody can be used for the differential diagnosis of lung squamous cell carcinoma and lung adenocarcinoma via immunohistochemical staining. This binding specificity and affinity of this antibody was determined using ELISA. The original IgG1 antibody is reported to bind human p40 with an affinity constant of $5.99 \times 10^9 \text{ M}^{-1}$ (CN104447994).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated



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Storage:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Database Link:	Q9H3D4
Synonyms:	chronic ulcerative stomatitis protein; CUSP; Keratinocyte transcription factor KET; p40; p51; p73L; TP63; Transformation-related protein 63; Tumor protein 63; Tumor protein p73-like; ZR8