

## Product datasheet for **TA307460**

### Cytokeratin 4 (KRT4) Rabbit Monoclonal Antibody [Clone ID: EPR1598]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	EPR1598
Applications:	IF, IHC, WB
Recommended Dilution:	ICC: 1: 100 - 250, IHC: 1: 100 - 250, WB: 1: 1,000 - 10,000
Reactivity:	Rat, Human (Does not react with: Mouse)
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues in human Cytokeratin 4 was used as an immunogen.
Formulation:	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	57 kDa
Gene Name:	keratin 4
Database Link:	<a href="#">NP_002263</a> <a href="#">Entrez Gene 16682 Mouse</a> <a href="#">Entrez Gene 315323 Rat</a> <a href="#">Entrez Gene 3851 Human</a> <a href="#">P19013</a>

**Background:** Keratins are a family of structurally related proteins that form the intermediate filament cytoskeleton in epithelial cells (1). Keratins are expressed in pairs by epithelial cells in a tissue and cell specific manner (2). The major differentiation specific keratins of the buccal mucosa, nasal, esophageal and anogenital epithelia are cytokeratin 4 and cytokeratin 13 (2). Cytokeratin 4 and cytokeratin 13 form heterodimers in normal epithelial cells (3). In humans, cytokeratin 4 is present in all layers of the epidermis at 10 weeks and gradually disappears (3). Genetic mutations in cytokeratin 4 cause white sponge nevus (WSN), an autosomal dominant disorder that affects noncornified stratified squamous epithelia (4).

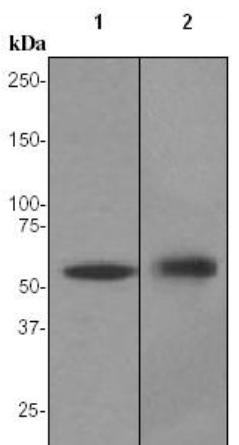


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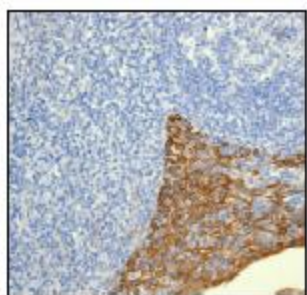
**Synonyms:** CK-4; CK4; CYK4; K4; WSN1

**Note:** Does not react with Mouse

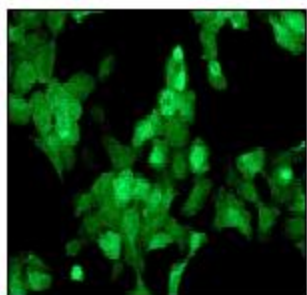
**Product images:**



Western blot - Cytokeratin 4 antibody [EPR1598]; All lanes : Anti-Cytokeratin 4 antibody [EPR1598] at 1/1000 dilution. Lane 1 : A431 cell lysate. Lane 2 : Human uterus cell lysate. Lysates/proteins at 10 ug per lane. Secondary. HRP labelled goat anti-rabbit IgG at 1/2000 dilution. Predicted band size : 57 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Cytokeratin 4 antibody [EPR1598]; TA307460, at a 1/100 dilution, staining Cytokeratin 4 in paraffin embedded Human tonsil tissue by Immunohistochemistry. Note positive staining of squamous cells.



Immunocytochemistry/ Immunofluorescence - Cytokeratin 4 antibody [EPR1598]; Immunofluorescent staining of A431 cells, using TA307460 at a 1/100 dilution.