

## Product datasheet for **CF809199**

### **P4HA3 Mouse Monoclonal Antibody [Clone ID: OTI9A2]**

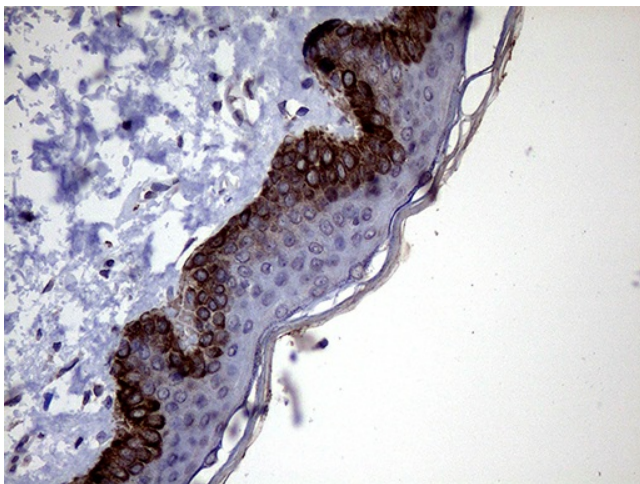
#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI9A2
<b>Applications:</b>	IHC
<b>Recommended Dilution:</b>	IHC 1:1000
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human P4HA3 (NP_878907) produced in E.coli.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	59.3 kDa
<b>Gene Name:</b>	prolyl 4-hydroxylase subunit alpha 3
<b>Database Link:</b>	<a href="#">NP_878907</a> <a href="#">Entrez Gene 320452 MouseEntrez Gene 361612 RatEntrez Gene 283208 Human Q7Z4N8</a>



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- Background:** This gene encodes a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline that is essential to the proper three-dimensional folding of newly synthesized procollagen chains. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]
- Synonyms:** 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase); alpha III subunit; alpha polypeptide III; C-P4H alpha III; collagen prolyl 4-hydroxylase alpha(III); procollagen-proline; prolyl 4-hydroxylase
- Protein Families:** Druggable Genome
- Protein Pathways:** Arginine and proline metabolism, Metabolic pathways
- Product images:**



Immunohistochemical staining of paraffin-embedded Human skin tissue within the normal limits using anti-P4HA3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809199]) (1:1000)