

**Rabbit Anti-IMP3/KOC/L523S Polyclonal: RC0308, RC0308RTU7**

**Intended Use:** For Research Use Only

**Description:** Insulin-like growth factor-II messenger RNA (mRNA)-binding protein-3 (IMP-3), also known as K homology domain-containing protein overexpressed in cancer (KOC) and L523S, is a member of the insulin-like growth factor-II mRNA-binding protein family and is expressed during embryogenesis and in some malignancies. IMP-3 is expressed in malignant melanoma but not in benign nevi, even when dysplastic features are present; IMP-3 is expressed in a significantly higher proportion of melanomas than Spitz nevi; and IMP-3 is expressed in metastatic melanomas significantly more than in thin melanomas. IMP-3 appears to be involved in the progression of malignant melanoma and may play an important role in the regulation of the biologic behavior of this tumor.

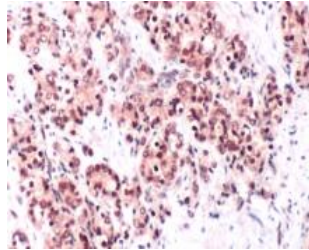
**Specifications**

Clone: Polyclonal  
Source: Rabbit  
Isotype: IgG  
Localization: Cytoplasm, nucleus  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2° - 8°C  
Applications: IHC  
Package:

Description	Catalog No.	Size
IMP3/KOC/L523S Concentrated	RC0308	1 ml
IMP3/KOC/L523S Prediluted	RC0308RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Placenta, prostate cancer  
Concentrated Dilution: 25-50  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual  
\* Result should be confirmed by an established diagnostic procedure.



FFPE human prostate carcinoma stained with anti-KOC using DAB

**References:**

1. Autoantibody detection to tumor-associated antigens of P53, IMP1, P16, cyclin B1, P62, C-myc, Survivin, and Koc for the screening of high-risk subjects and early detection of esophageal squamous cell carcinoma. Zhou SL, et al. Dis Esophagus. 2013 Oct 21.
2. Value of Glut-1 and Koc markers in the differential diagnosis of reactive mesothelial hyperplasia, malignant mesothelioma and pulmonary adenocarcinoma. Üçer Ö, et al. Turk Patoloji Derg. 2013;29(2):94-100
3. IMP3/L523S, a novel immunocytochemical marker that distinguishes benign and malignant cells: the expression profiles of IMP3/L523S in effusion cytology. Ikeda K, et al. Hum Pathol. 2010 May;41(5):745-50.
4. Expression of K homology domain containing protein (KOC) in pancreatic cytology with corresponding histology. Toll AD, et al. Acta Cytol. 2009 Mar-Apr;53(2):123-9.

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