10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-Complement C6 Antibody

Catalog # AP51026

## Product Information

| | |
|---|---|
| **Application** | WB, IHC |
| **Primary Accession** | P13671 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 104786 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 729 |
| **Other Names** | Complement component C6 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Complement C6. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

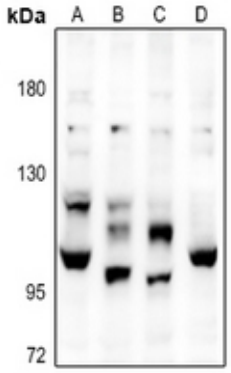
| | |
|---|---|
| **Name** | C6 {ECO:0000303\|PubMed:2789218, ECO:0000312\|HGNC:HGNC:1339} |
| **Function** | Component of the membrane attack complex (MAC), a multiprotein complex activated by the complement cascade, which inserts into a target cell membrane and forms a pore, leading to target cell membrane rupture and cell lysis (PubMed:22267737, PubMed:22832194, PubMed:26841837, PubMed:27052168, PubMed:30552328). The MAC is initiated by proteolytic cleavage of C5 into complement C5b in response to the classical, alternative, lectin and GZMK complement pathways (PubMed:30552328, PubMed:39914456, PubMed:39814882). The complement pathways consist in a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:30552328). Together with component C5b, involved in MAC complex assembly: complement C5b and C6 associate with the outer leaflet of target cell membrane, reducing the energy for membrane bending (PubMed:30552328, PubMed:32569291). |
| **Cellular Location** | Secreted. Target cell membrane; Multi-pass membrane protein. |

Note=Secreted as soluble protein (PubMed:2808363). Inserts into the cell membrane of target cells (PubMed:30552328, PubMed:31061395)

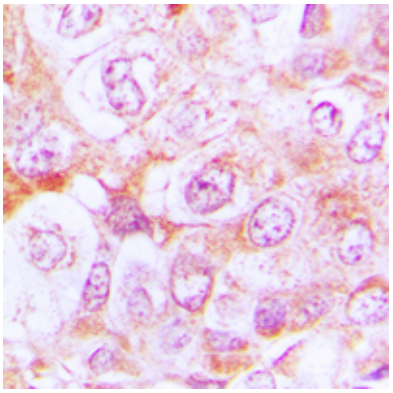
## References


Haefliger J.-A.,et al.J. Biol. Chem. 264:18041-18051(1989).
Discipio R.G.,et al.J. Biol. Chem. 264:16197-16206(1989).
Hobart M.J.,et al.Biochemistry 32:6198-6205(1993).
Soejima M.,et al.Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases.
Schmutz J.,et al.Nature 431:268-274(2004).


## Images




Western blot analysis of Complement C6 expression in LO2 (A), CT26 (B), PC12 (C), A549 (D) whole cell lysates. (Predicted band size: 104 kD; Observed band size: 105; 120 kD)



Immunohistochemical analysis of Complement C6 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.