

Carbonyl Reductase 3 Polyclonal Antibody
Catalog # AP68816**Specification****Carbonyl Reductase 3 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	O75828
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

Carbonyl Reductase 3 Polyclonal Antibody - Additional Information**Gene ID** 874**Other Names**

CBR3; Carbonyl reductase [NADPH] 3; NADPH-dependent carbonyl reductase 3

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Carbonyl Reductase 3 Polyclonal Antibody - Protein Information**Name** CBR3 ([HGNC:1549](#))**Function**

Catalyzes the NADPH-dependent reduction of carbonyl compounds to their corresponding alcohols (PubMed:18493841). Has low NADPH- dependent oxidoreductase activity. Acts on several orthoquinones, acts as well on non-quinone compounds, such as isatin or on the anticancer drug oracin (PubMed:15537833, PubMed:18493841, PubMed:19841672). Best substrates for CBR3 is 1,2- naphthoquinone, hence could play a role in protection against cytotoxicity of exogenous quinones (PubMed:19841672). Exerts activity toward ortho-quinones but not paraquinones. No endogenous substrate for CBR3 except isatin has been identified (PubMed:19841672).

Cellular Location

Cytoplasm.

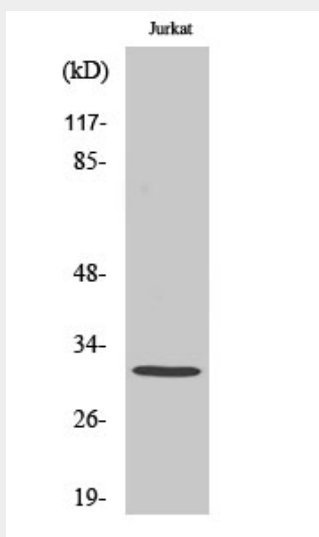
Tissue Location

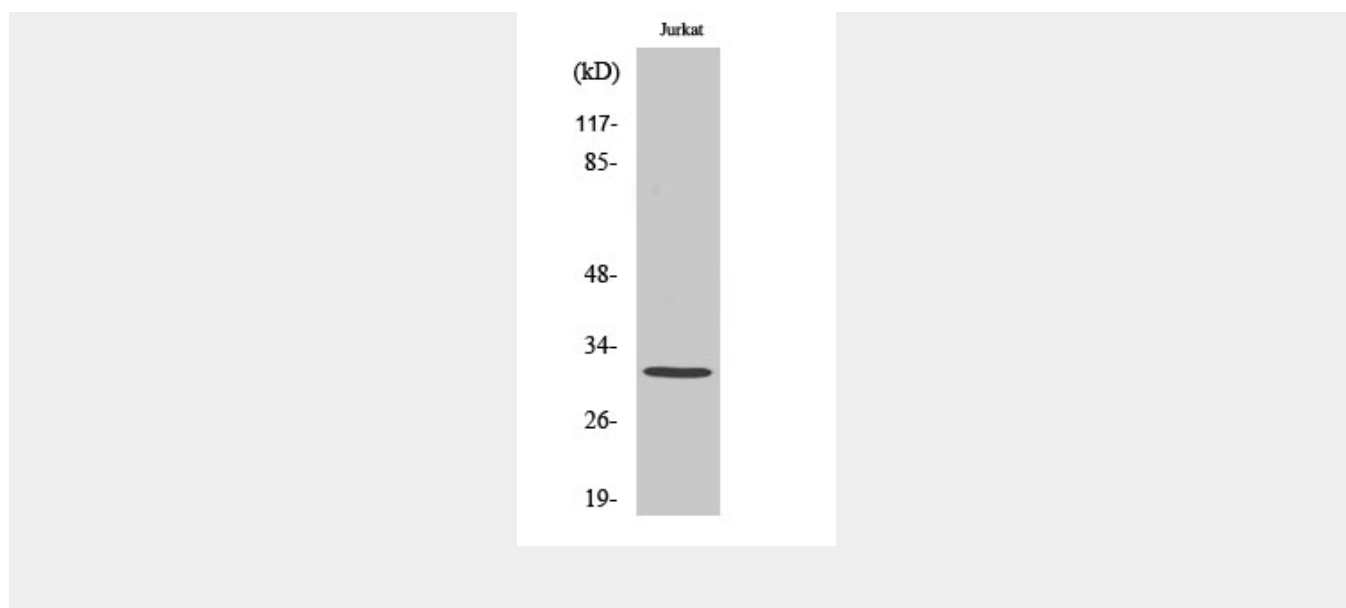
Detected in ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and testis.

Carbonyl Reductase 3 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Carbonyl Reductase 3 Polyclonal Antibody - Images



Carbonyl Reductase 3 Polyclonal Antibody - Background

Has low NADPH-dependent oxidoreductase activity towards 4-benzoylpyridine and menadione (in vitro).