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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℃

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.

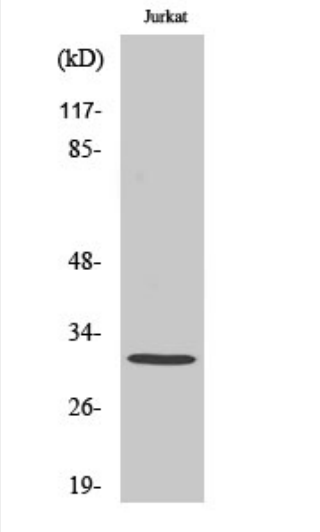
Tissue Location
Detected in ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and testis.

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 Cytomety
- Cell Culture

Carbonyl Reductase 3 Polyclonal Antibody - Images



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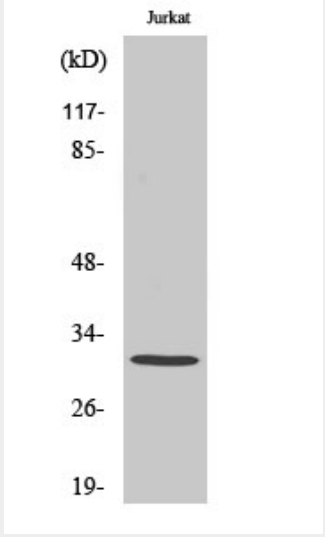

Carbonyl Reductase 3 Polyclonal Antibody - Background

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