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## eth\_getBlockByHash - Optimism

post <https://{network}.g.alchemy.com/v2/{apiKey}> Returns information about a block by block hash.

### Parameters

- Hash
-

- Hash of the block
- Boolean
- - If true it returns the full transaction objects, if false only the hashes of the transactions.

JavaScript params : ['0xe76d777791f48b5995d20789183514f4aa8bbf09e357383e9a44fae025c6c50a' ,true ]

## Returns

object - A block object, or null when no block was found. The returned object has the following properties:

- number
  - The block number of the requested block encoded as a hexadecimal string. null if pending.
- hash
- - The block hash of the requested block. null if pending.
- parenthash
- - Hash of the parent block.
- nonce
- - Hash of the generated proof-of-work. null if pending.
- sha3uncles
- - SHA3 of the uncles data in the block.
- logsbloom
- - The bloom filter for the logs of the block. null if pending.
- transactionsroot
- - The root of the transaction trie of the block.
- stateroot
- - The root of the final state trie of the block.
- receiptsroot
- - The root of the receipts trie of the block.
- miner
- - The address of the beneficiary to whom the mining rewards were given.
- difficulty
- - Integer of the difficulty for this block encoded as a hexadecimal string.
- totaldifficulty
- - Integer of the total difficulty of the chain until this block encoded as a hexadecimal string.
- extradata
- - The "extra data" field of this block.
- size
- - The size of this block in bytes as an Integer value encoded as hexadecimal.
- gaslimit
- - The maximum gas allowed in this block encoded as a hexadecimal string.
- gasused
- - The total used gas by all transactions in this block encoded as a hexadecimal string.
- timestamp
- - The unix timestamp when the block was collated.
- transactions
  - Array of transaction objects - please see[eth\\_getTransactionByHash](#)
- for exact shape.
- uncles
- - Array of uncle hashes.

## Request

cURL Postman SDK curl https://eth-mainnet.g.alchemy.com/v2/{apiKey} -X POST -H "Content-Type: application/json" --data '{"method":"eth\_getBlockByHash","params":["0xe76d777791f48b5995d20789183514f4aa8bbf09e357383e9a44fae025c6c50a"],false,"id":"1","jsonrpc":"2.0"}' URL: https://eth-mainnet.g.alchemy.com/v2/your-api-key RequestType: POST Body:

```
{ "jsonrpc": "2.0", "method": "eth_getBlockByHash", "params": ["0xe76d777791f48b5995d20789183514f4aa8bbf09e357383e9a44fae025c6c50a", false], "id": 0 } // Setup: npm install alchemy-sdk //
Github: https://github.com/alchemyplatform/alchemy-sdk-js import {Network,Alchemy} from "alchemy-sdk" // Optional config object, but defaults to demo api-key and eth-mainnet. const settings =
{apiKey: "demo" // Replace with your Alchemy API Key. network: Network.ETH_MAINNET // Replace with your network. };const alchemy = new Alchemy(settings);alchemy.core.getBlock
("0xe76d777791f48b5995d20789183514f4aa8bbf09e357383e9a44fae025c6c50a",false ).then(console.log); // Result
```

```
JavaScript ({ "jsonrpc": "2.0", "id": 0, "result": { "number": "0xf8e3d7", "hash": "0xe76d777791f48b5995d20789183514f4aa8bbf09e357383e9a44fae025c6c50a", "transactions": [
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}
```

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```

## NOTE

You can test out this method live from your browser using our[composer tool](#) .

Path Params apiKey string required .custom-style { color: #048FF4; } For higher throughput.[create your own API key](#) Body Params id integer jsonrpc string method string params array 1. String - Hash of block 2. Boolean - Iftrue 3. it returns the full transaction objects, iffalse 4. only the hashes of the transactions. Defaults tofalse 5. . params Block Hash Full Transaction Objects Block Hash Full Transaction Objects

Response

## 200

Returns a block object with the following fields, or null when no block was found.

Response body object id integer jsonrpc string result object A block object with the following fields, or null when no block was found. nonce string 8 Bytes - hash of the generated proof-of-work. null when its pending block. hash string 32 Bytes - hash of the block. null when its pending block. baseFeePerGas string the base fee, in wei, that is charged for each unit of gas used, during the execution of the given block, encoded as a hexadecimal. number string the block number. null when its pending block. parentHash string 32 Bytes - hash of the parent block. sha3Uncles string 32 Bytes - SHA3 of the uncles data in the block. logsBloom string 256 Bytes - the bloom filter for the logs of the block. null when its pending block. transactionsRoot string 32 Bytes - the root of the transaction trie of the block. stateRoot string 32 Bytes - the root of the final state trie of the block. receiptsRoot string 32 Bytes - the root of the receipts trie of the block. miner string 20 Bytes - the address of the beneficiary to whom the mining rewards were given. difficulty string integer of the difficulty for this block. totalDifficulty string integer of the total difficulty of the chain until this block. extraData string the "extra data" field of this block. size string integer the size of this block in bytes. gasLimit string the maximum gas allowed in this block. gasUsed string the total used gas by all transactions in this block. timestamp string the unix timestamp for when the block was collated. transactions array of strings Array of transaction objects, or 32 Bytes transaction hashes depending on the last given parameter. transactions uncles array of strings Array of uncle hashes. uncles

Updated 5 months ago

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